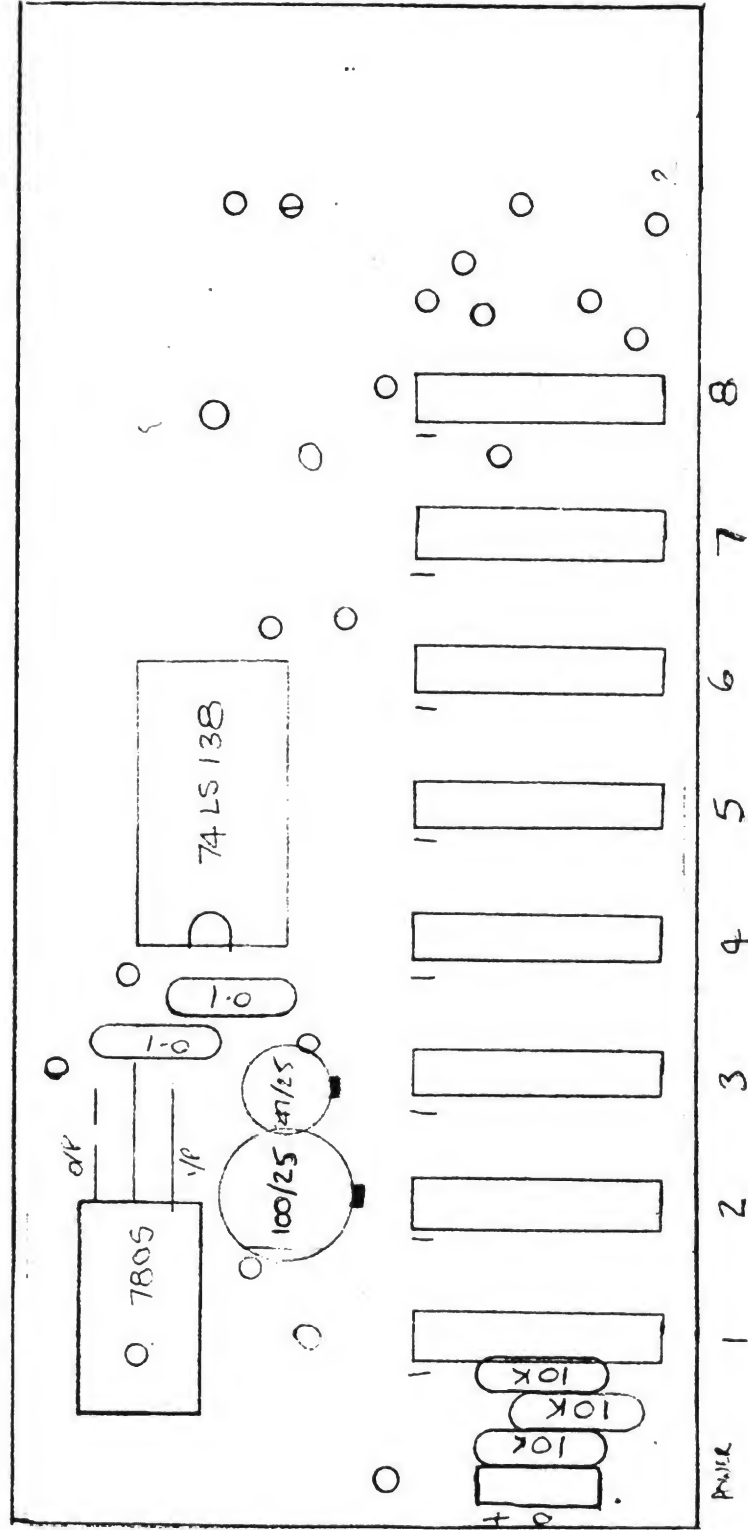


AHB AUTO MUTE MASTER AGO168



The diagram shows a slave unit circuit. At the top left, there's a power input section with terminals for +15V and 0V. A 7805 voltage regulator is connected to these inputs. Various capacitors are used for filtering: a 100µF capacitor on the +15V line, two 0.1µF capacitors near the 7805, and a 47µF capacitor on the ground line. The regulated +5V output from the 7805 is connected to pin 8 of a 74LS138 decoder chip. The decoder chip has three inputs at pins 16, 17, and 18, which are tied to address lines 16, 17, and 18 respectively. Its four enable pins (pins 1, 2, 3, and 15) are all connected to ground. The decoder's eight active-low outputs (pins 1, 2, 3, 4, 5, 6, 7, and 14) are connected to output lines 1 through 8. These output lines pass through a series of circular connectors or buffers before reaching the 'TO SLAVES' header at the bottom right.

ALLEN & HEATH BRENNELL LTD.
PROFESSIONAL AUDIO EQUIPMENT
MANUFACTURERS

EB

DESIGN DEPT' 69, SHIP STREET, BRIGHTON BN1 1AE Tel 0273 24928
FACTORY' KERNOX INDUSTRIAL EST, PENRYN, CORNWALL Tel 02026 72070

DRAWING No.	A 133	1890
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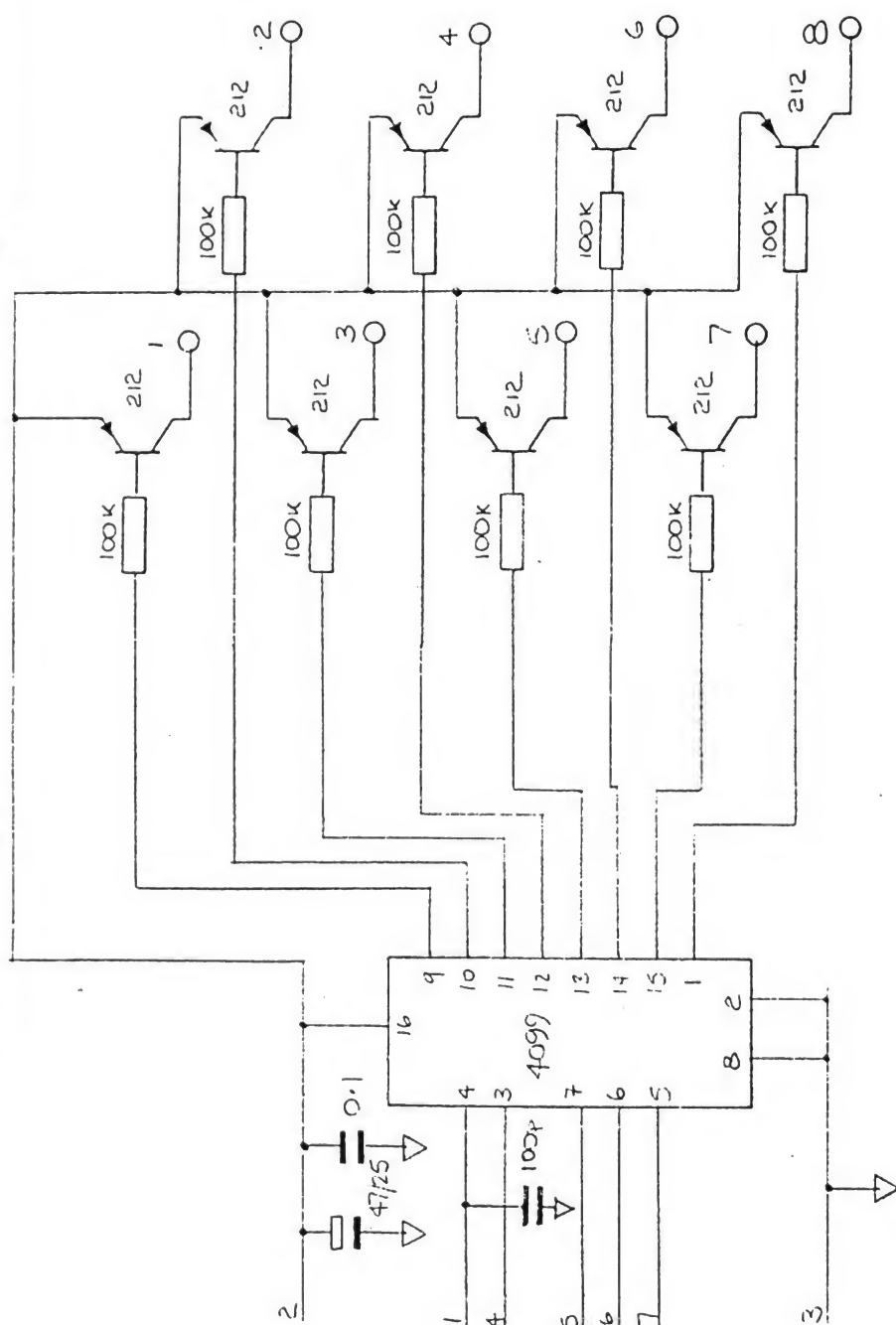
[illegible]

SIGMA AUTO MUTE MASTER

TO SLAVES

DRG. No.

A133



TO AUTO MUTE MASTER

ULTIMATE LIVE! & NIGHT

**SPECIALTY
PROFESSIONAL AUDIO EQUIPMENT
MANUFACTURERS**

VERB

DESIGN DEPT' 6A, SHIP STREET, BRIGHTON BN1 1AE Tel 02773 26928
FACTORY' KERNOX INDUSTRIAL EST PENRYN, CORNWALL Tel 02026 72000

DESIGN DEPT. BUILDING STREET, BRISTOL BN1 1AE TEL 0272 21 2532
FACTORY, KERNOX INDUSTRIAL EST. PEMBERTON, CORNWALL TEL 02026 72000

[illegible]

SIGMA AUTO MUTE SLAVE

DRG. No.

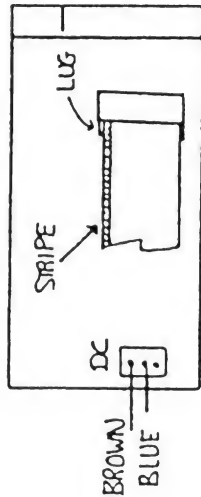
A134

DRAWING No. A 134

67551

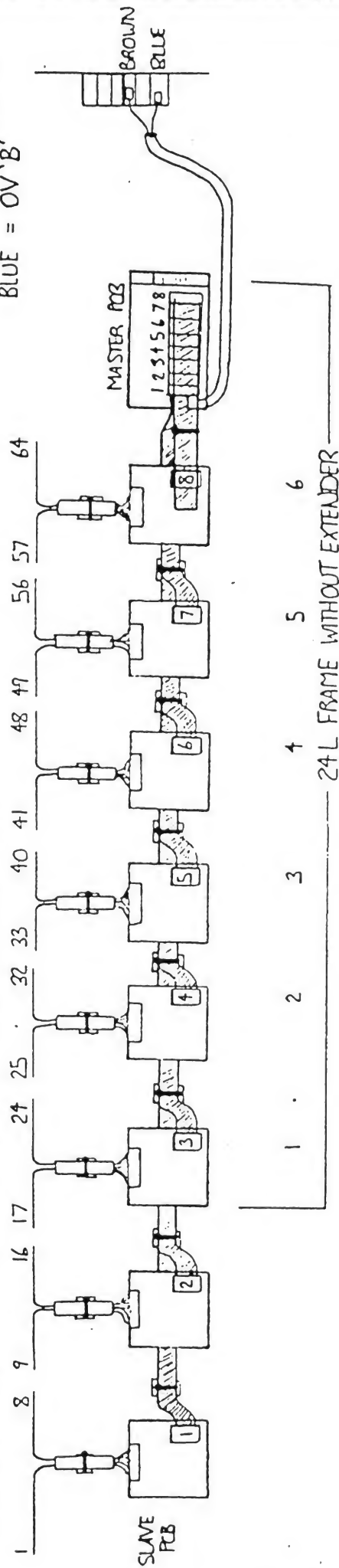
COLOUR SEQUENCE: BROWN RED ORANGE YELLOW GREEN BLUE VIOLET GREY
CHANNEL NUMBER

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64



BROWN = +15V DC 'B'
BLUE = 0V 'B'

MUTE WIRE PLUGS INTO FADER HARNESS - MATES WITH PIN 7 (WHITE WIRE)



AHB ALLEN & HEATH BROS. LTD.
PROFESSIONAL AUDIO EQUIPMENT
MANUFACTURERS

DESIGN DEPT. 99, SHIP STREET, BIRMINGHAM B4 4UE TEL 0121 745 0200
FACTORY: KETTERICK INDUSTRIAL ESTATE, COMMINS, TEL 01204 72070

TITLE SIGMA AUTO-MUTE — ASSEMBLY INTO MIXER

DRG. No.

CD 5-11-86/1

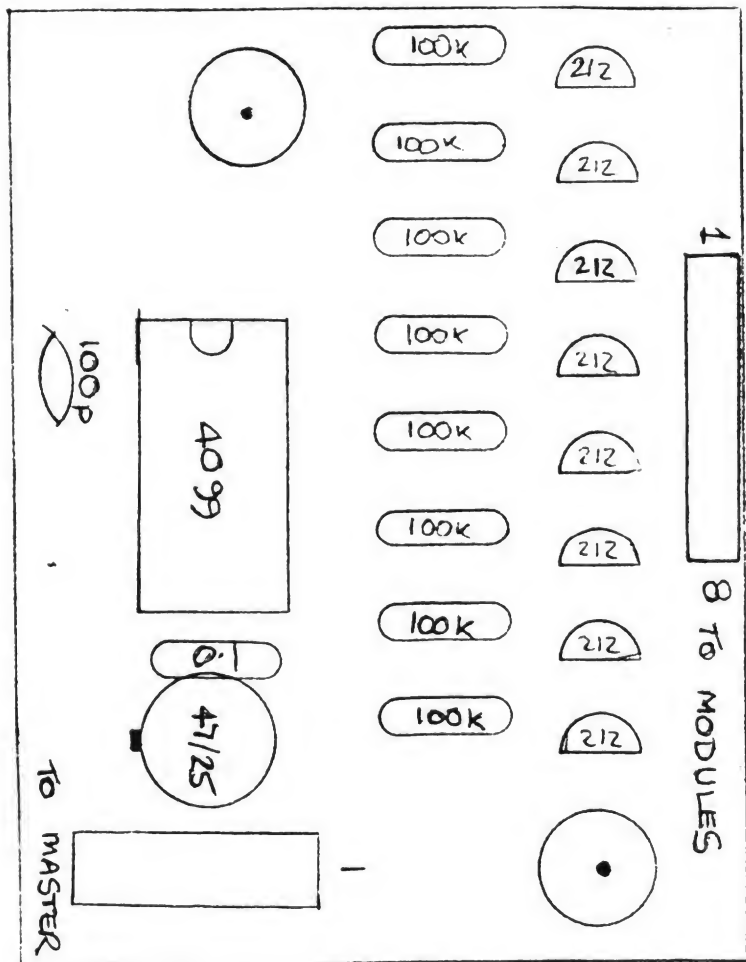
DRAWING No. CD 5-11-86/1 Issue 1

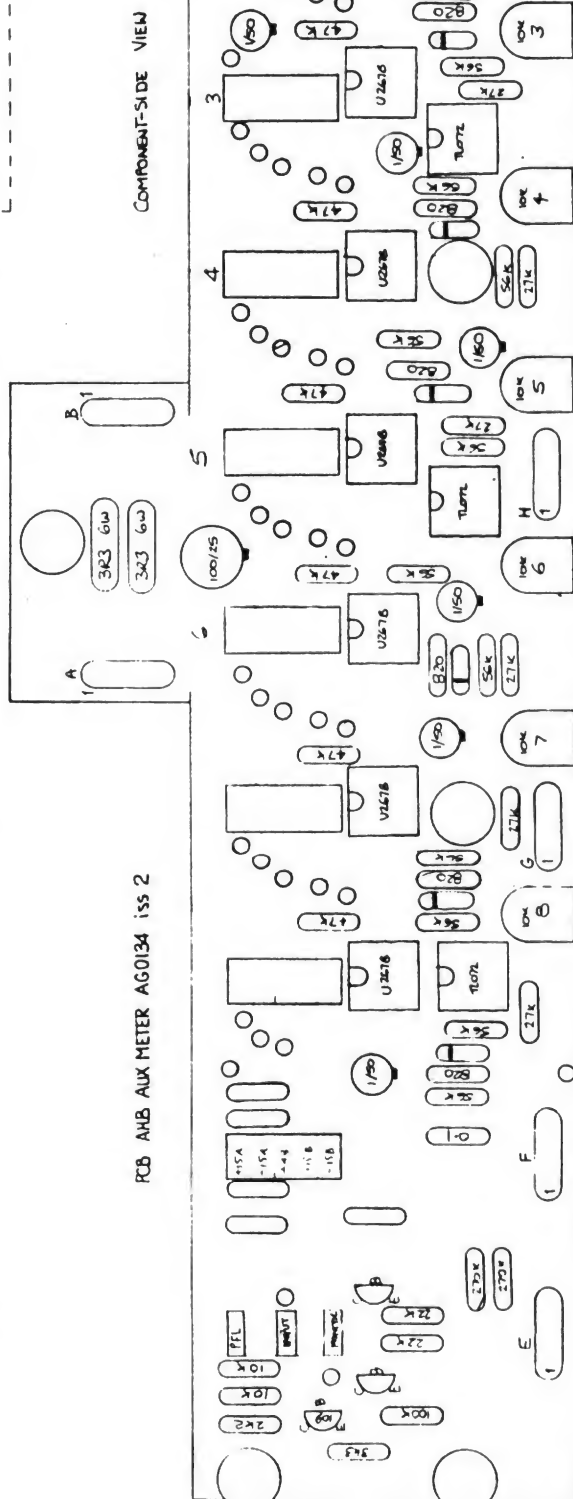
ANB

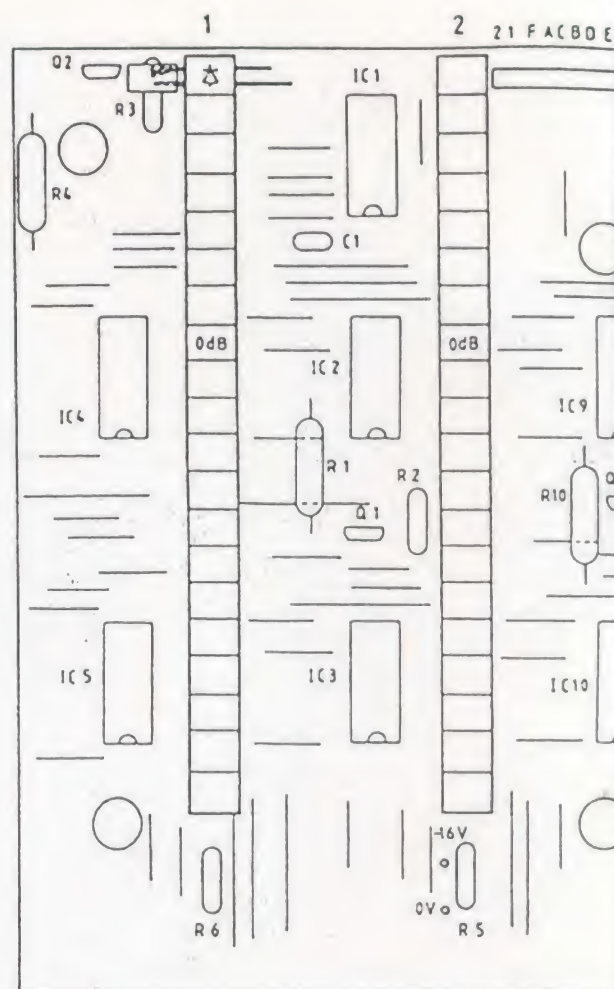
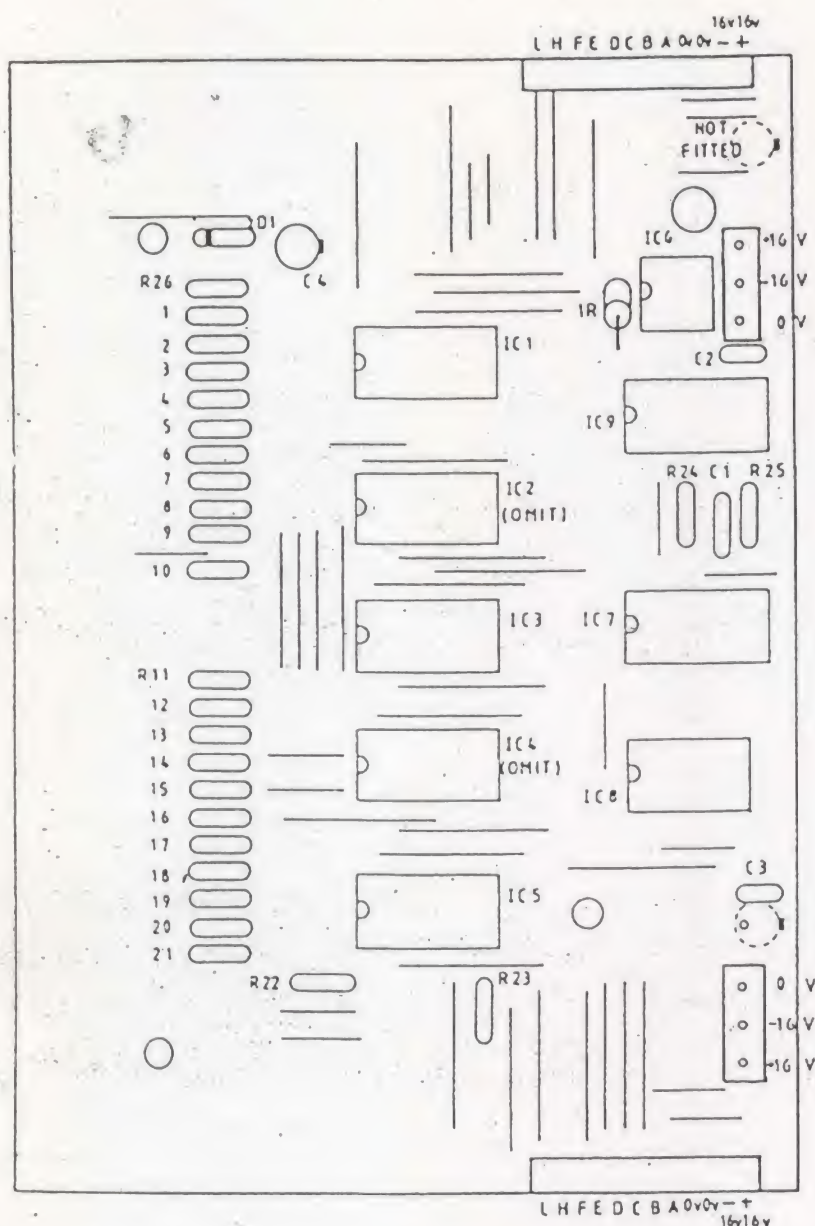
AUTO MUTE

SLAVE

AC 0167



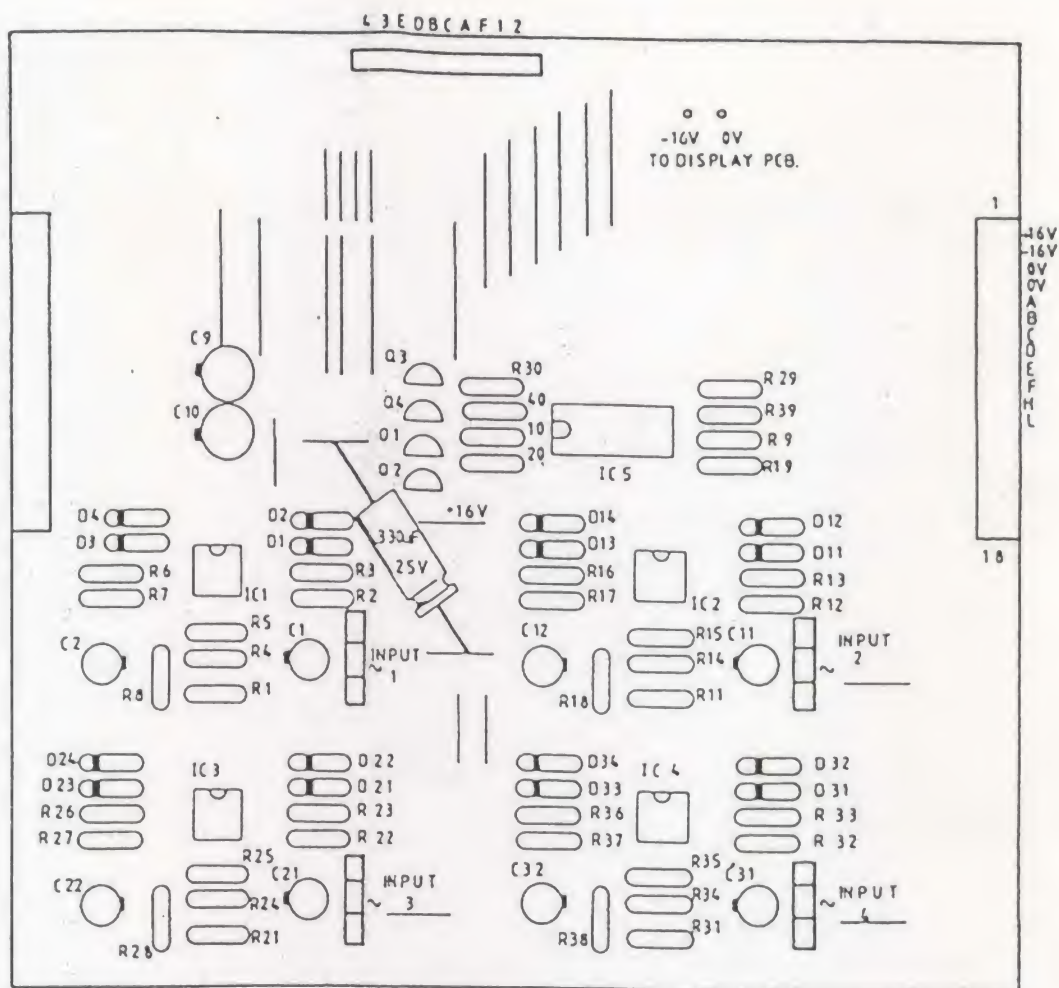
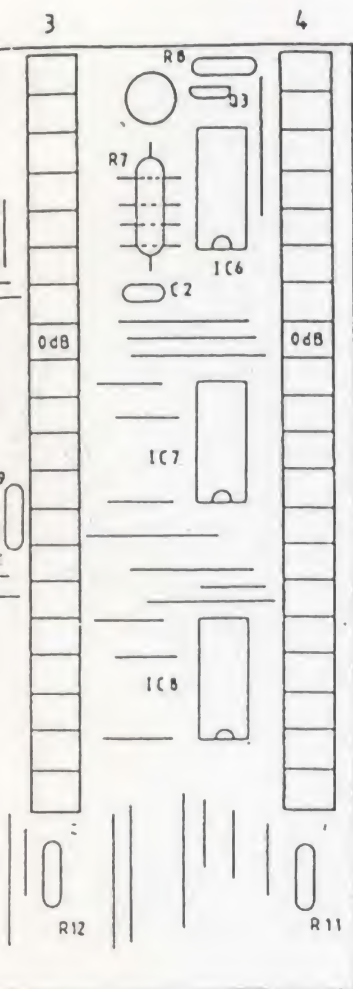
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MASTER PCB. AG 0192 ISS. 3

ALLEN&HEATH
BARGRAPH METERS

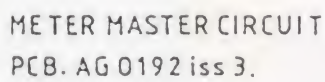
DRAWING NO. BW 223 ISS. 1



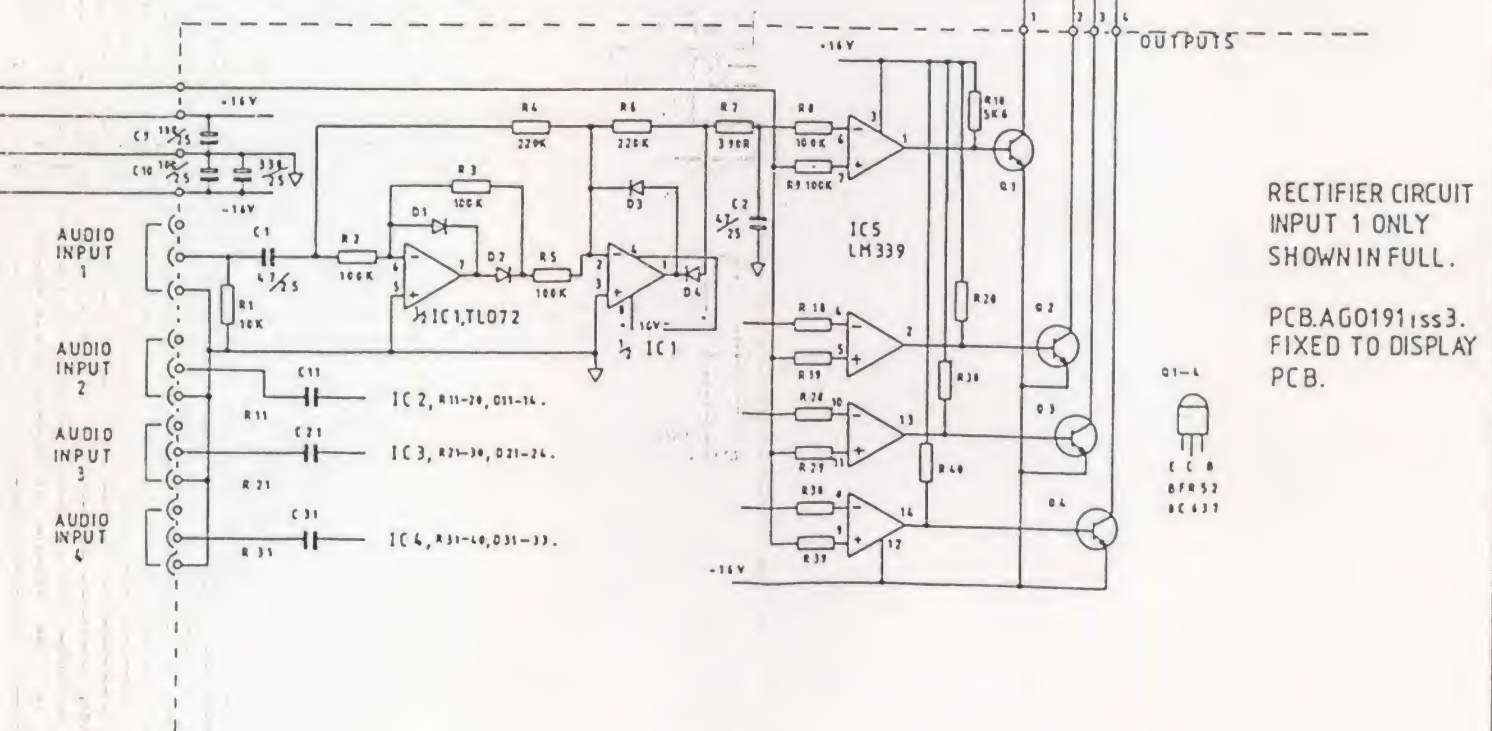
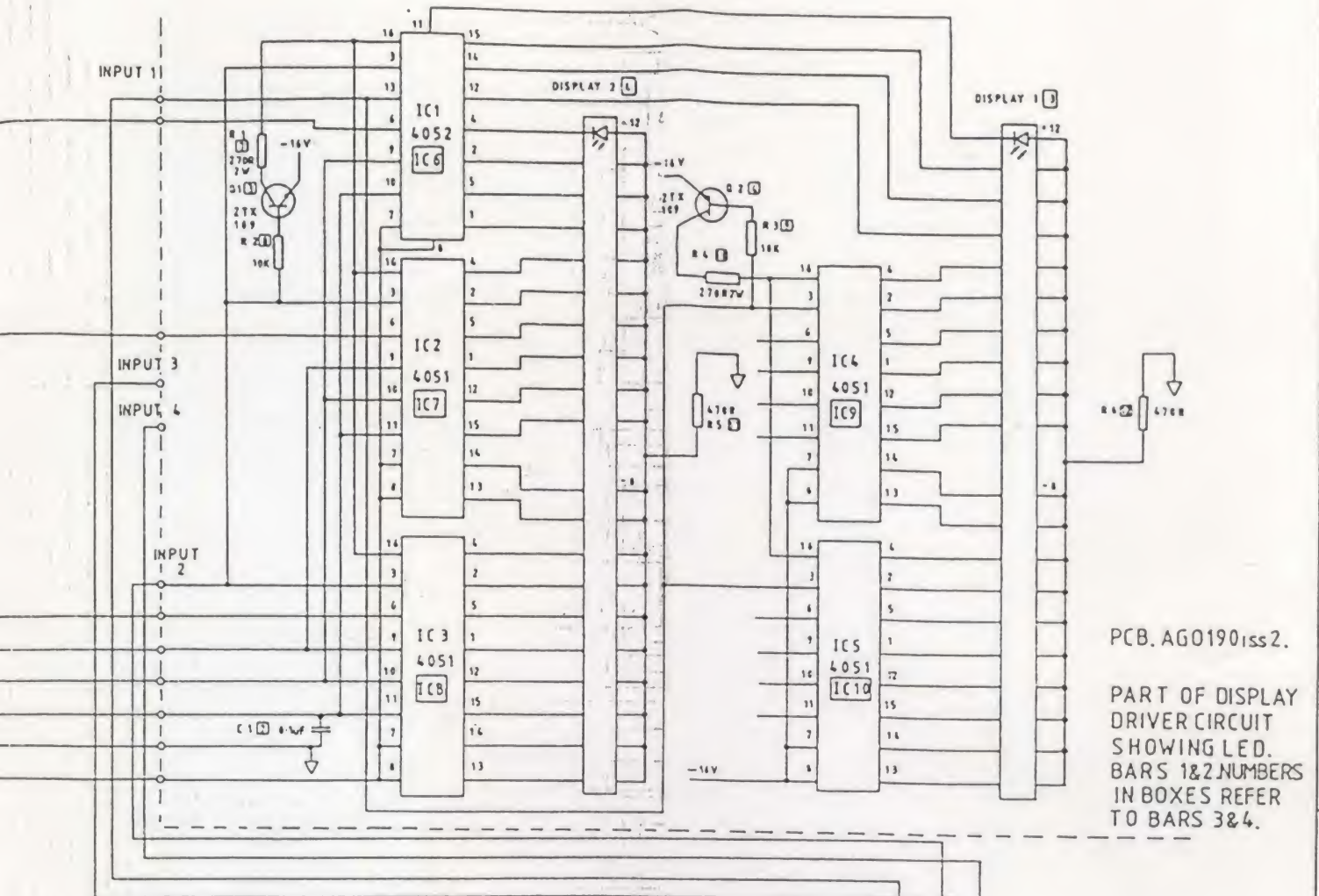
PLAY PCB. AG 0190 ISS. 2

RECTIFIER PCB. AG 0191 ISS. 3





				<p>STANDARD NOTES</p> <p>ALL DIMENSIONS IN mm.</p> <p>DO NOT SCALE DRAWING.</p> <p>THIRD ANGLE PROJECTION</p> <p>REMOVE ALL BURRS & SHARP EDGES</p>		<p>MATERIAL</p>		<p>TOLERANCES</p> <p>GENERAL : 0.25 mm</p> <p>HOLE CENTRES : 0.13 mm</p> <p>HOLE SIZES : 0.10 mm</p>	
<p>E. J.</p> <p>DATE</p>		<p>11.08.20</p> <p>DATE</p>		<p>SCALE</p>				<p>UNLESS STATED OTHERWISE</p>	



NOTES

APPLIES TO PCB TYPES:
MASTER - AGO192 iss. 3
RECTIFIER - AGO191 iss 3
DISPLAY - AGO190 iss. 2

UNIT TITLE

ALLEN & HEATH

DRAWING TITLE

BARGRAPH METER CIRCUIT

AHB

ALLEN & HEATH BRENELL LTD
PROFESSIONAL AUDIO EQUIPMENT
MANUFACTURERS

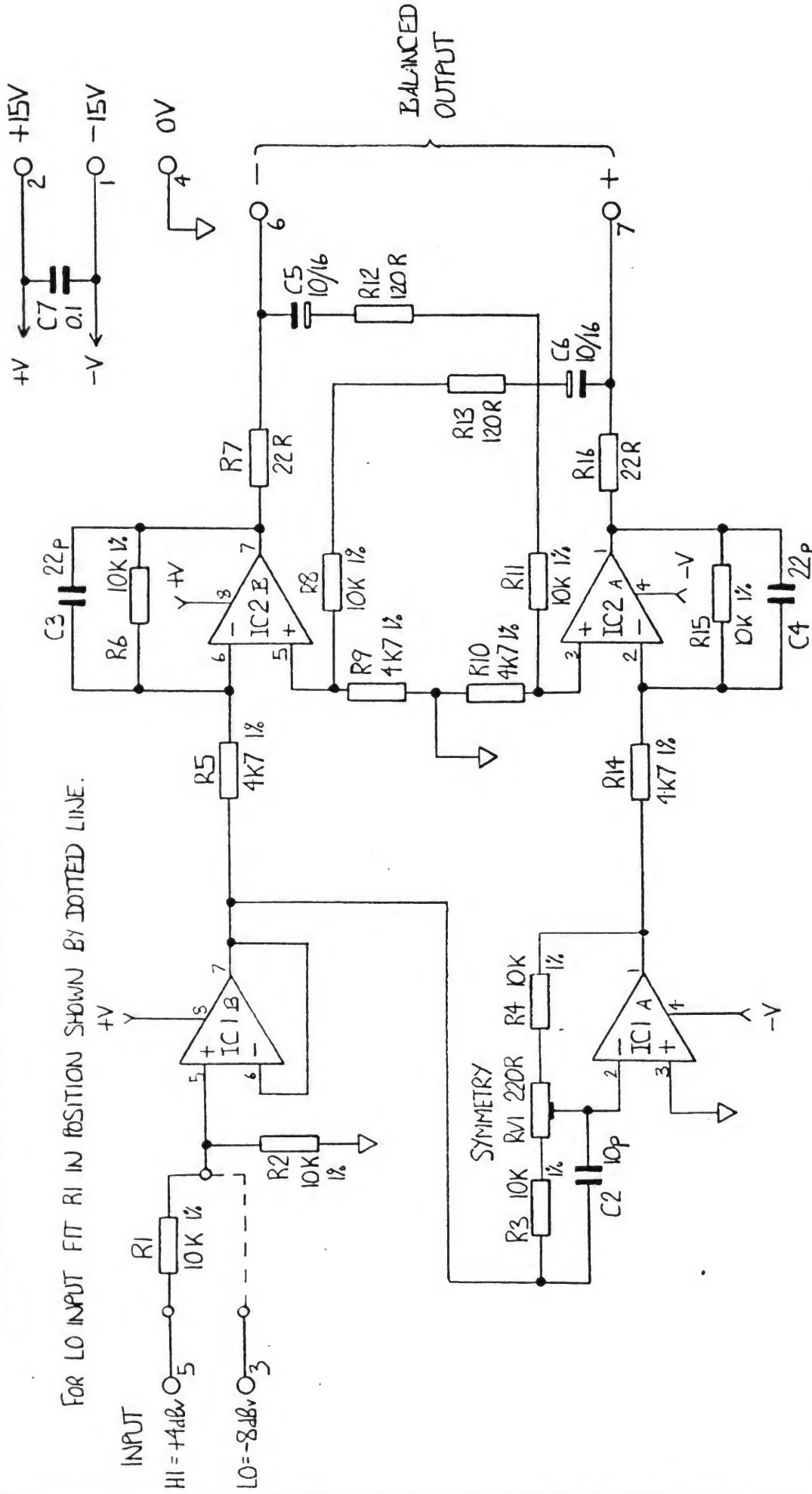
DESIGN DEPT. 25 SHIP STREET BIRMINGHAM B1 1UE
FACTORY KERRICK INDUSTRIAL ESTATE PERINTH CORNWALL PL33 0NR

DRAWING NO. MBD 189

18-0000 5

ALL RESISTORS ARE 1/4 WATT 5% UNLESS MARKED OTHERWISE

FOR LO INPUT FIT R1 IN POSITION SHOWN BY DOTTED LINE.



AHB
ALLEN & HEATH PRENEILL LTD
PROFESSIONAL AUDIO EQUIPMENT
MANUFACTURERS

DESIGN DEPT: 68, SHIP STREET, BIRMINGHAM B5 1AE TEL: 0121 728 2600
FACTORY: KENWOOD INDUSTRIAL ESTATE, COMMINS, TEL: 0121 720 7000

DRAWING NO. A137

ISSUE 2

TITLE EPOS - OPTION PCB CIRCUITS

PCB TYPE AG0117 ISSUE 2

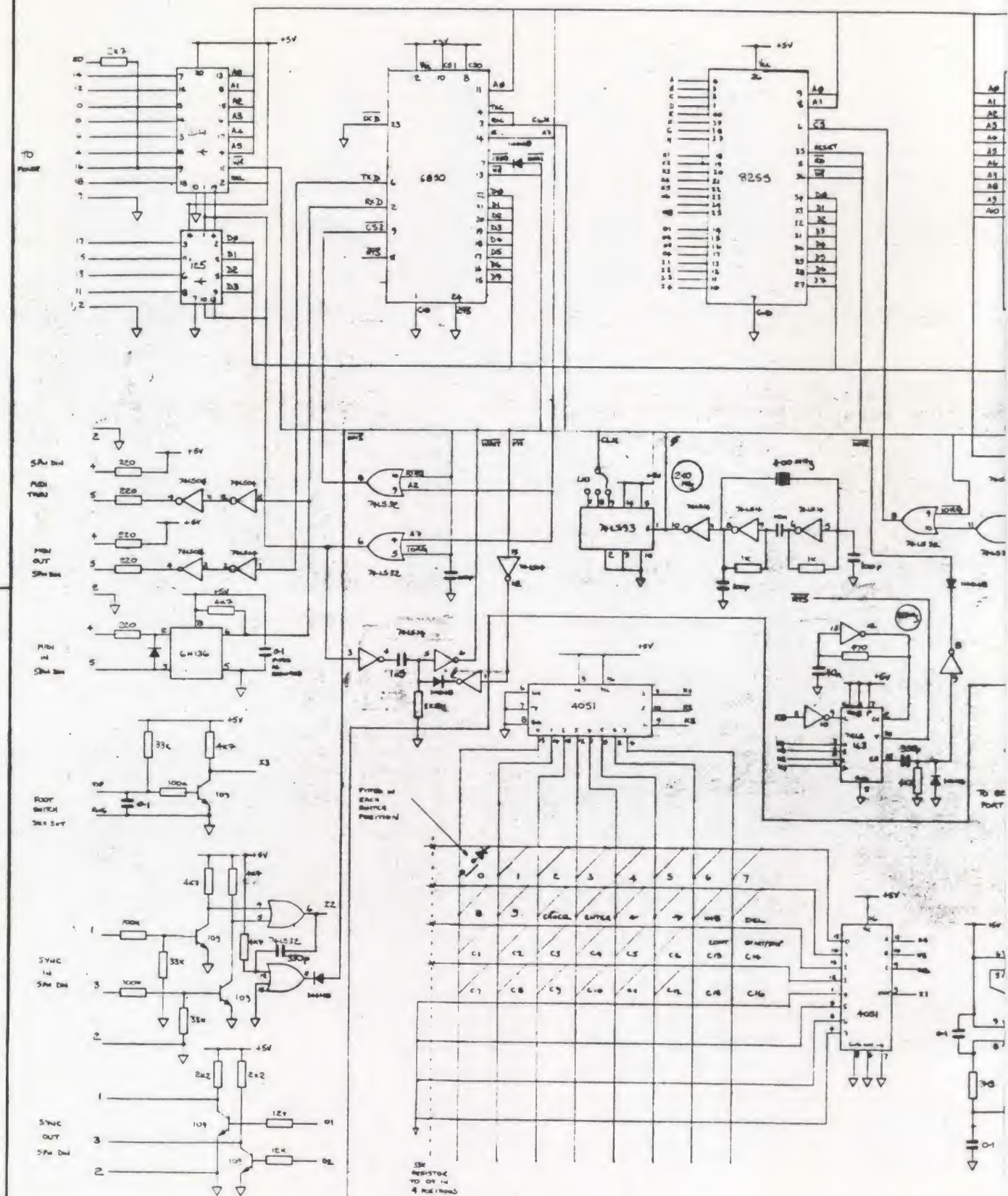
ELECTRONICALLY BALANCED OUTPUT SYSTEM



DRAWN BY CD 29-7-86

DRG. NO.

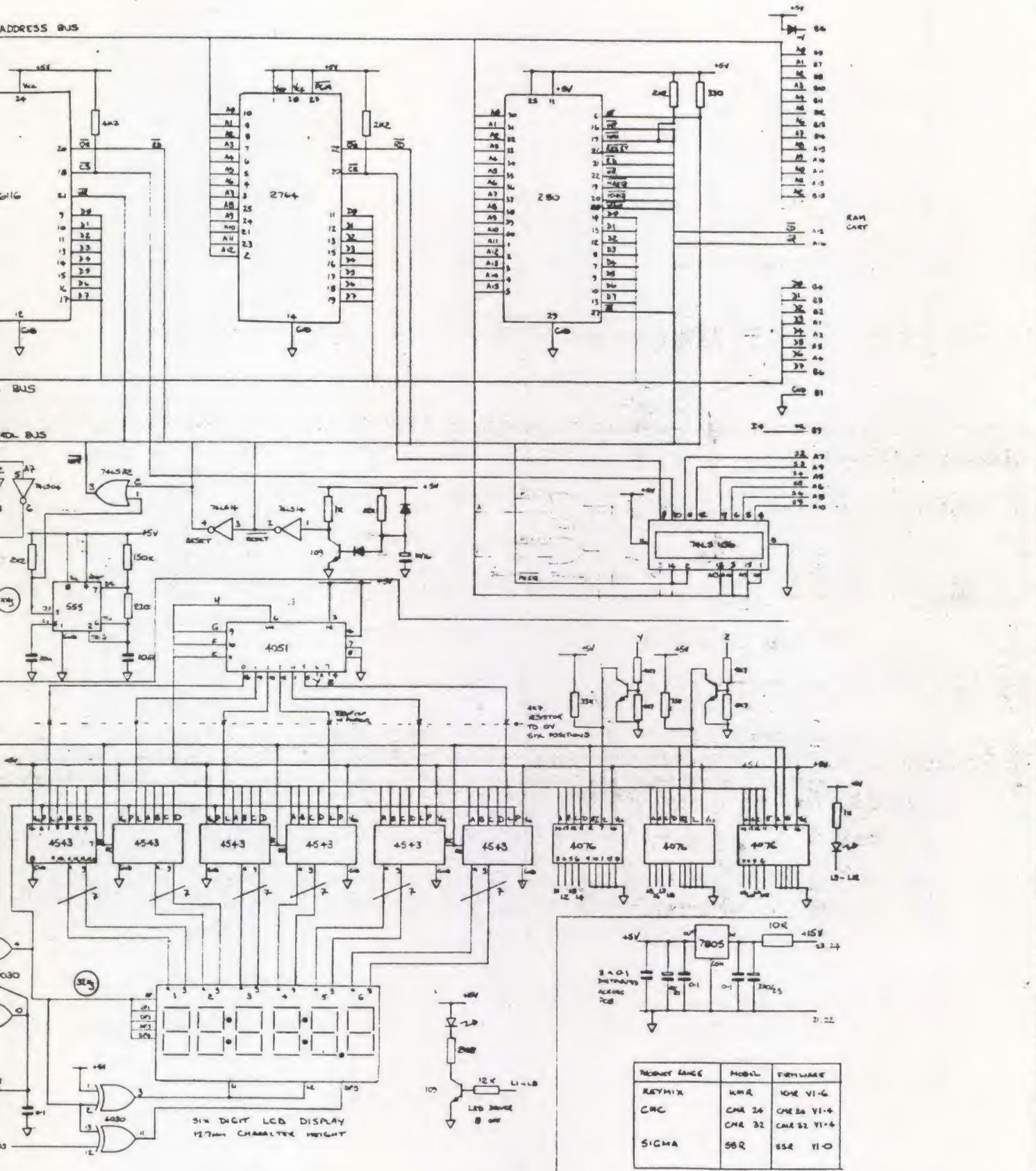
A137

ISSUE 2



CHEG	CHEG GENERAL CONFORMANCE VALUES	28/7/96	STANDARD NOTES ALL DIMENSIONS IN mm DO NOT SCALE DRAWING.  THIRD ANGLE PROJECTION REMOVE ALL BURRS & SHARP EDGES	<u>MATERIAL</u>
CHEG	CHEG VARIATIONS	7/1/95		
CHEG	DRAWINGS	10/12/93		
DRAWN	REVISION	DATE D-CHECKED		
			SCALE 	<u>TOLERANCES</u> GENERAL ±0,25 mm HOLE CENTRES ±0,15 mm HOLE SIZES ±0,10 mm
				UNLESS STATED OTHERWISE

ADDRESS BUS



FINISH

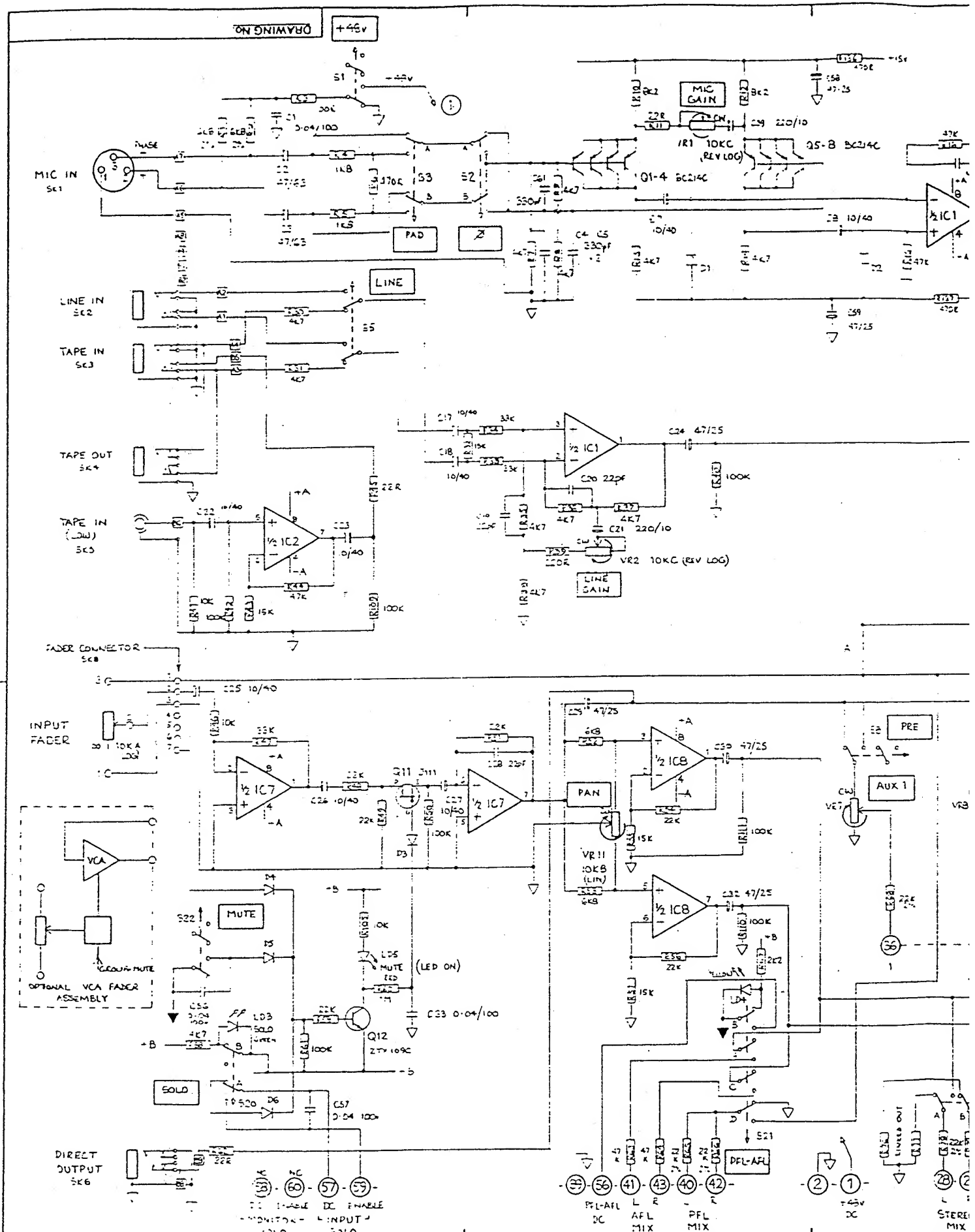
NOTES


UNIT TITLE

KMIX REMOTE CIRCUIT

DRAWING TITLE

AHB ALLEN & HEATH INTERNATIONAL LTD
PROFESSIONAL AUDIO EQUIPMENT MANUFACTURERS
"DESIGN DEPT" 80, SHIP STREET, BIRMINGHAM B5 4AE TEL 0272 24880
"FACTORY" KERRICK INDUSTRIAL EST, PENRYN, CORNWALL, PL20 8QR 72899
DRAWING NO. MBD 141 Issue 4



				STANDARD NOTES		MATERIAL		TOLERANCES		FINISH
				ALL DIMENSIONS IN mm				GENERAL		±0.25 mm
				DO NOT SCALE DRAWING				HOLE CENTRES		±0.15 mm
				THIRD ANGLE PROJECTION				HOLE SIZES		±0.10 mm
				REMOVE ALL BURRS & SHARP EDGES						
				SCALE				UNLESS STATED OTHERWISE		

REV	REVISION	DATE	BY	CHECKED
1	REVISED			
2	REVISED			
3	REVISED			

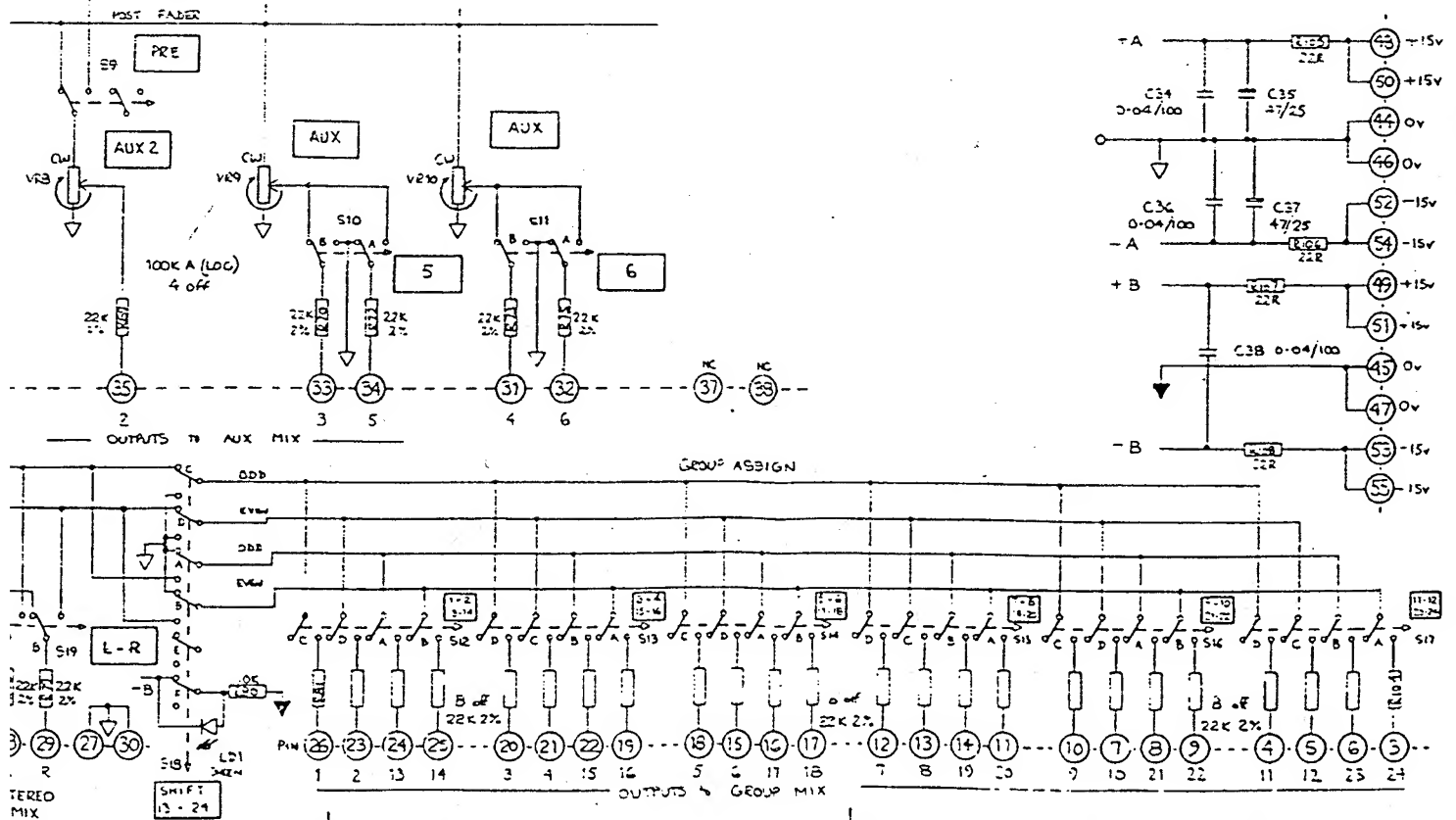
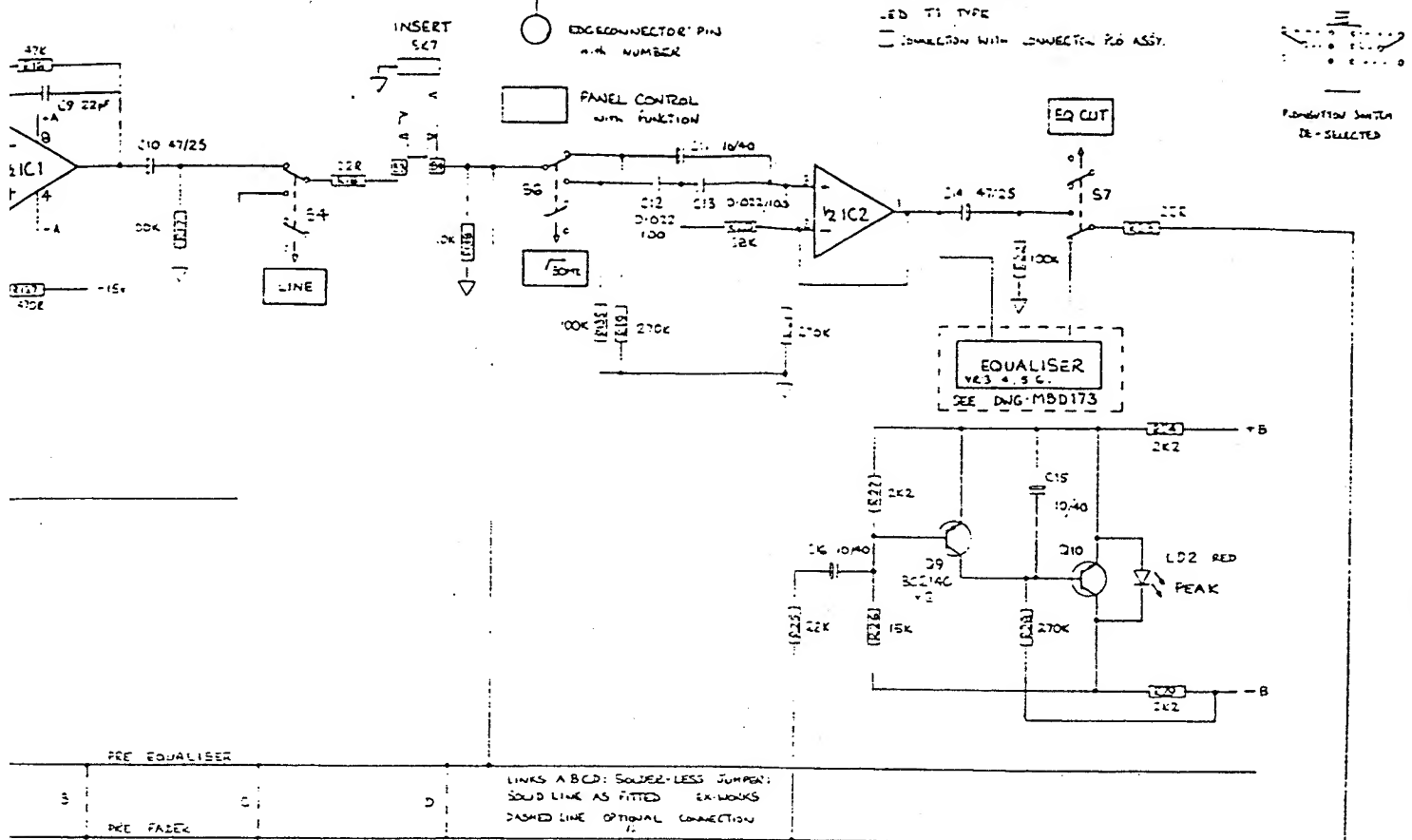
VIEW ON PINS



ALL OP. AMPS

RESISTORS 1/4W 5% UNLESS STATED.
CAPACITORS SHOWN VALUE/VOLTAGE
PUSHBUTTON SWITCHES SHOWN DE-SELECTED
DIODES 1N4148 OR EQUIV
LED T1 TYPE
— CONNECTION WITH CONNECTOR PLO ASSY.

DATE: 11/19/88
UNIT: 111
19



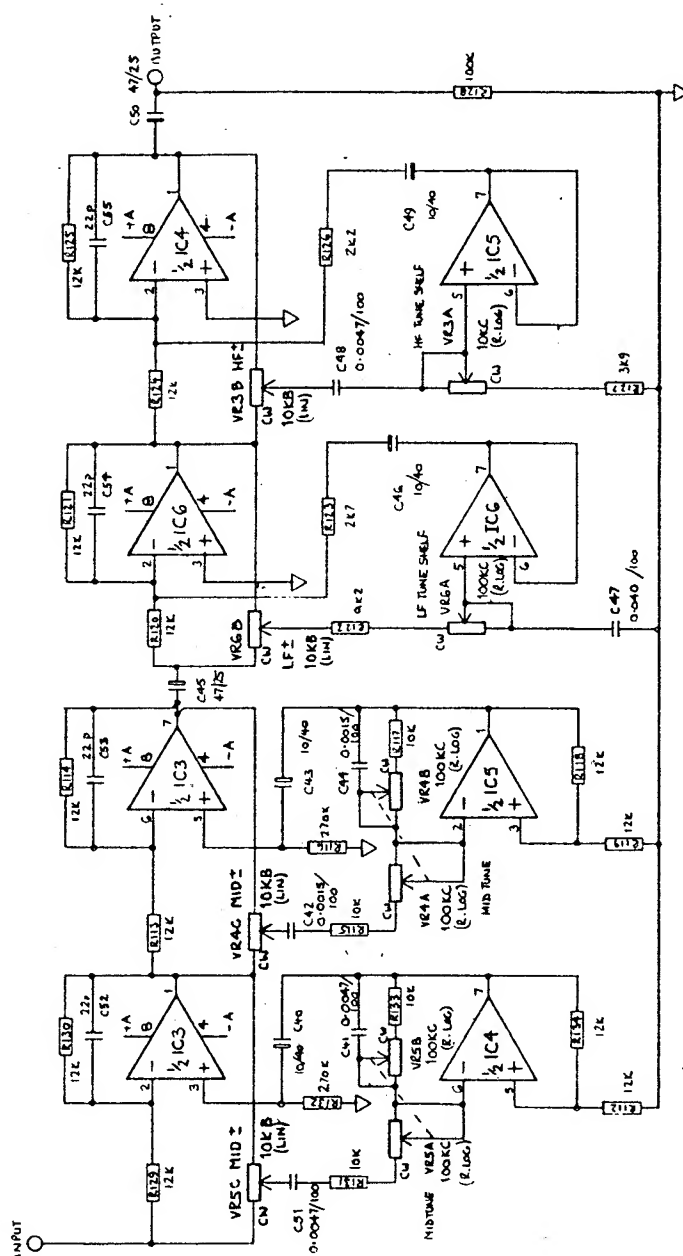
<p>NOTES</p> <p>APPLIES TO PCB AGO128 15K 3</p> <p>AGO129 15K 3</p>	<p>UNIT TITLE</p> <p>AHB SIGMA SERIES</p> <p>DRAWING TITLE</p> <p>INPUT CHANNEL MODULE M410</p>	<p>AHB ALLEN & HEATH BRENELL LTD.</p> <p>PROFESSIONAL AUDIO EQUIPMENT MANUFACTURERS</p> <p>DESIGN DEPT. 64 SHIP STREET, BRISTOL BVA 1AE</p> <p>FACTORY: KERRICK INDUSTRIAL ESTATE, CORNWALL PL30 2BQ</p> <p>TELEPHONE: 0273 24028</p> <p>DRAWING NO. MBD172</p> <p>REVISION 3</p>
---	---	--

VIEW FROM TRACK SIDE
of PCB

INNER

OUTER

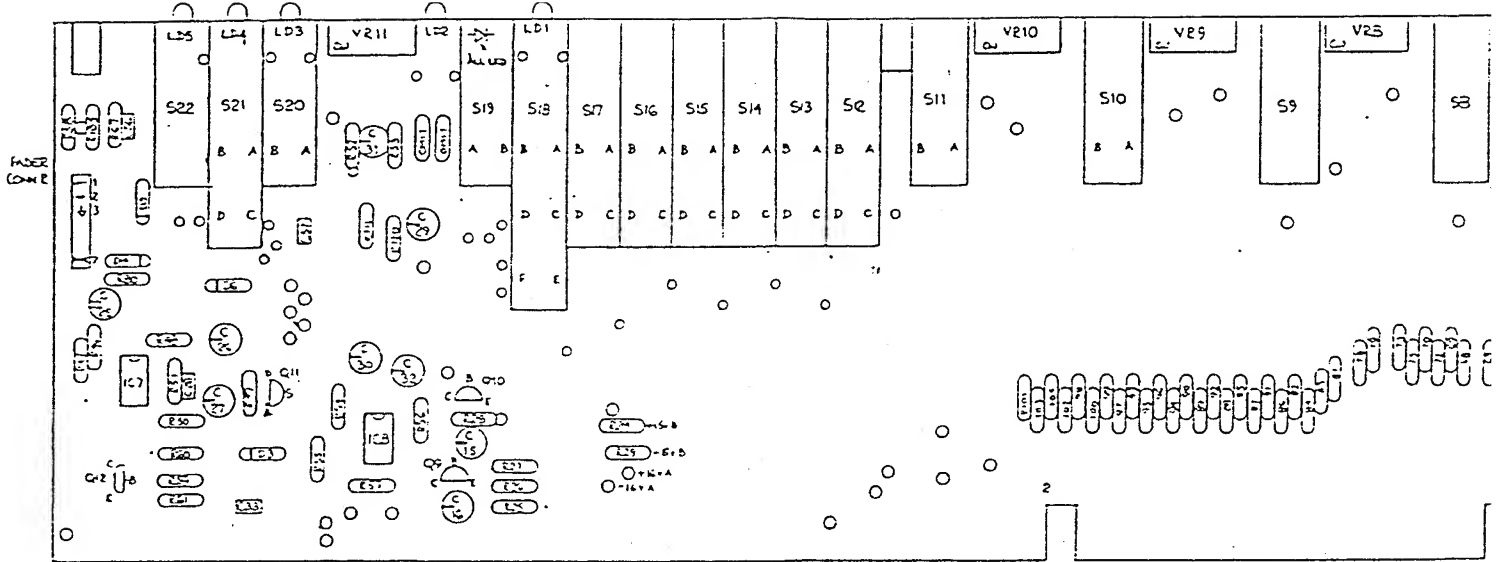
VR 4.5.



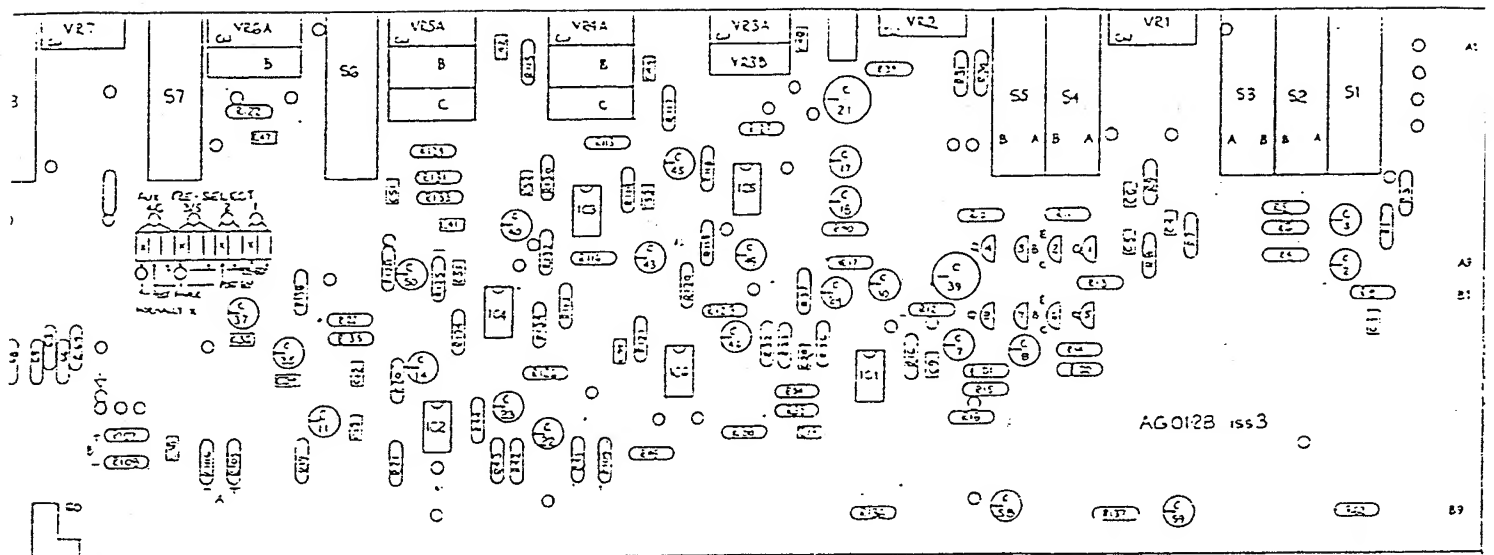
ISSUE	CHANGE	DRAWN	CHECKED	DATE
1	—	TC	TC	10 NOV 85
2	P.B. in 2. VALUE CHANGE 49.	TC	TC	25 JAN 86
3	VALUE CHANGES	TC	TC	11-9-86
4	VALUE CHANGE C-99	TC	TC	7-10-86

NOTES:

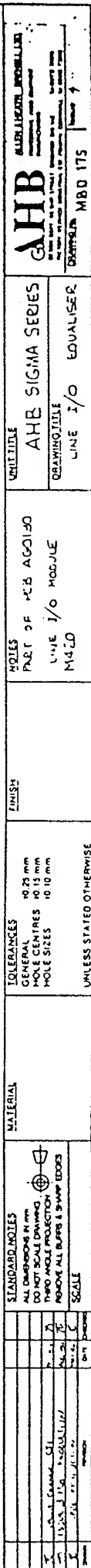
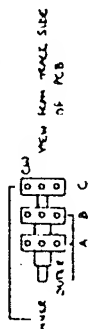
1. PART OF PCB AGO12B INPUT CHANNEL

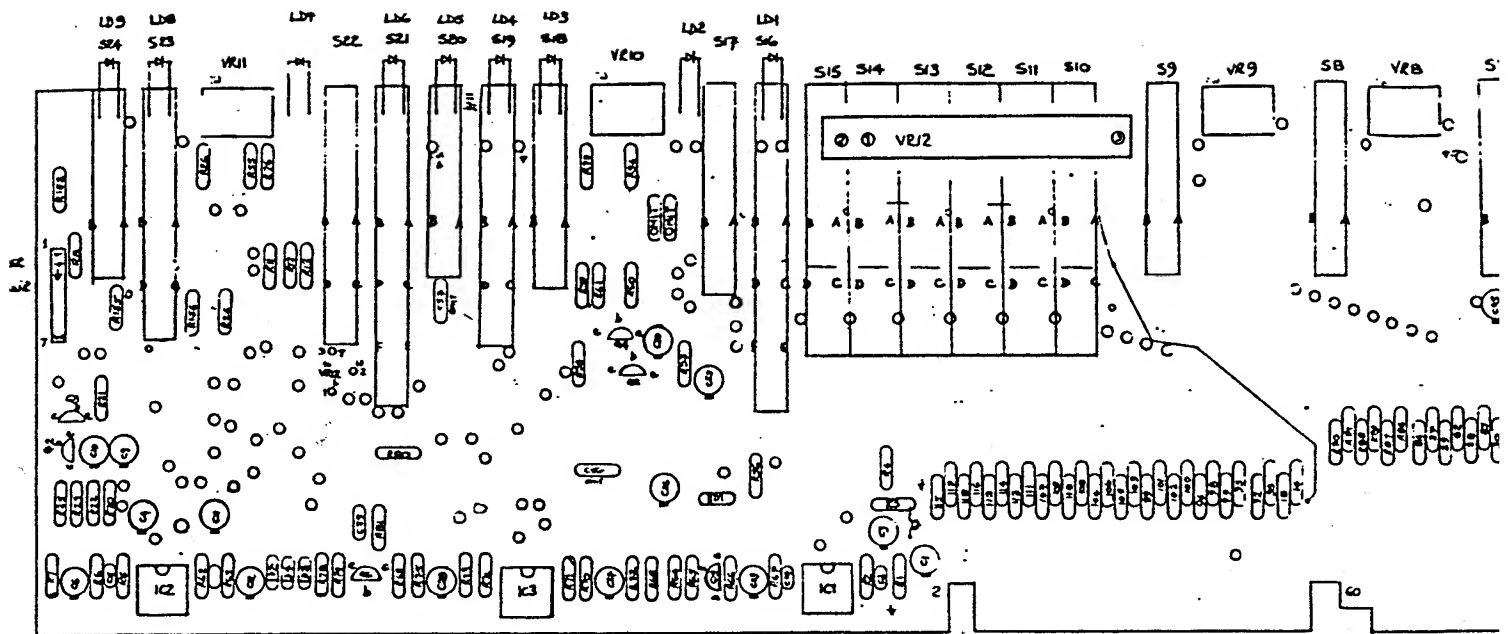


AHB SIGMA SERIES

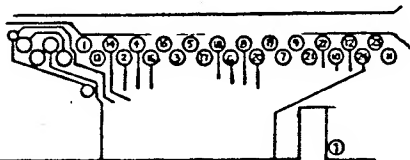


PCB ASSEMBLY AG 0128 iss3 ZX 100-004 Part of Module Type M410





OTHER SIDE OF PCB

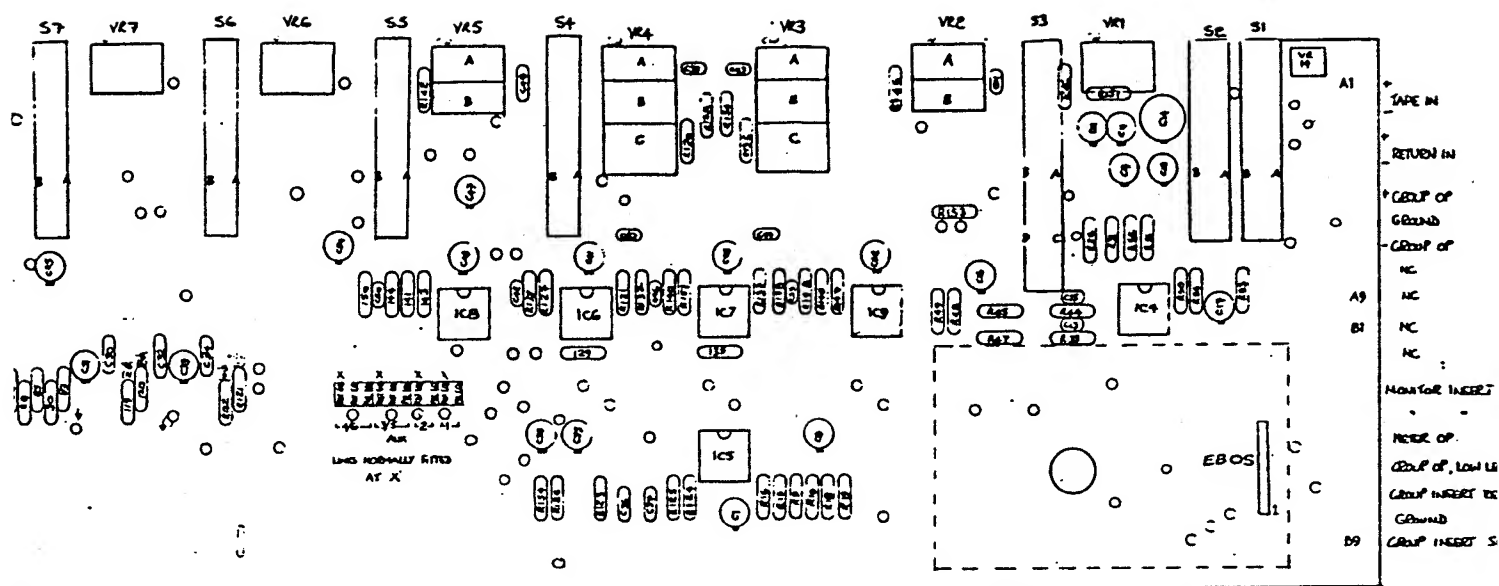


OTHER SIDE OF PCB

AHB SIGMA SERIES

--- DIFFERENT PCB AGO130 1003
VIEW OF "PANEL-SIDE"

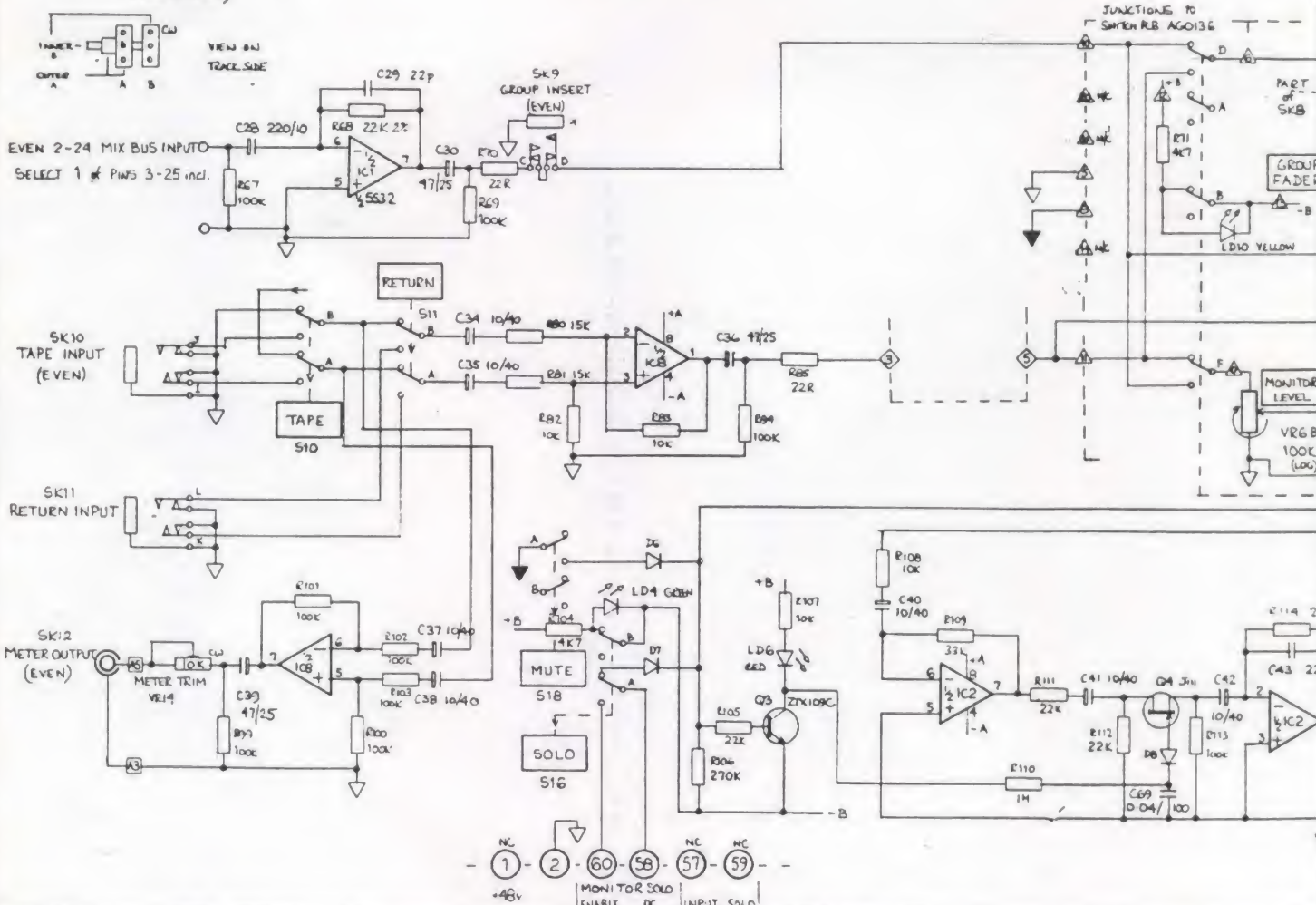
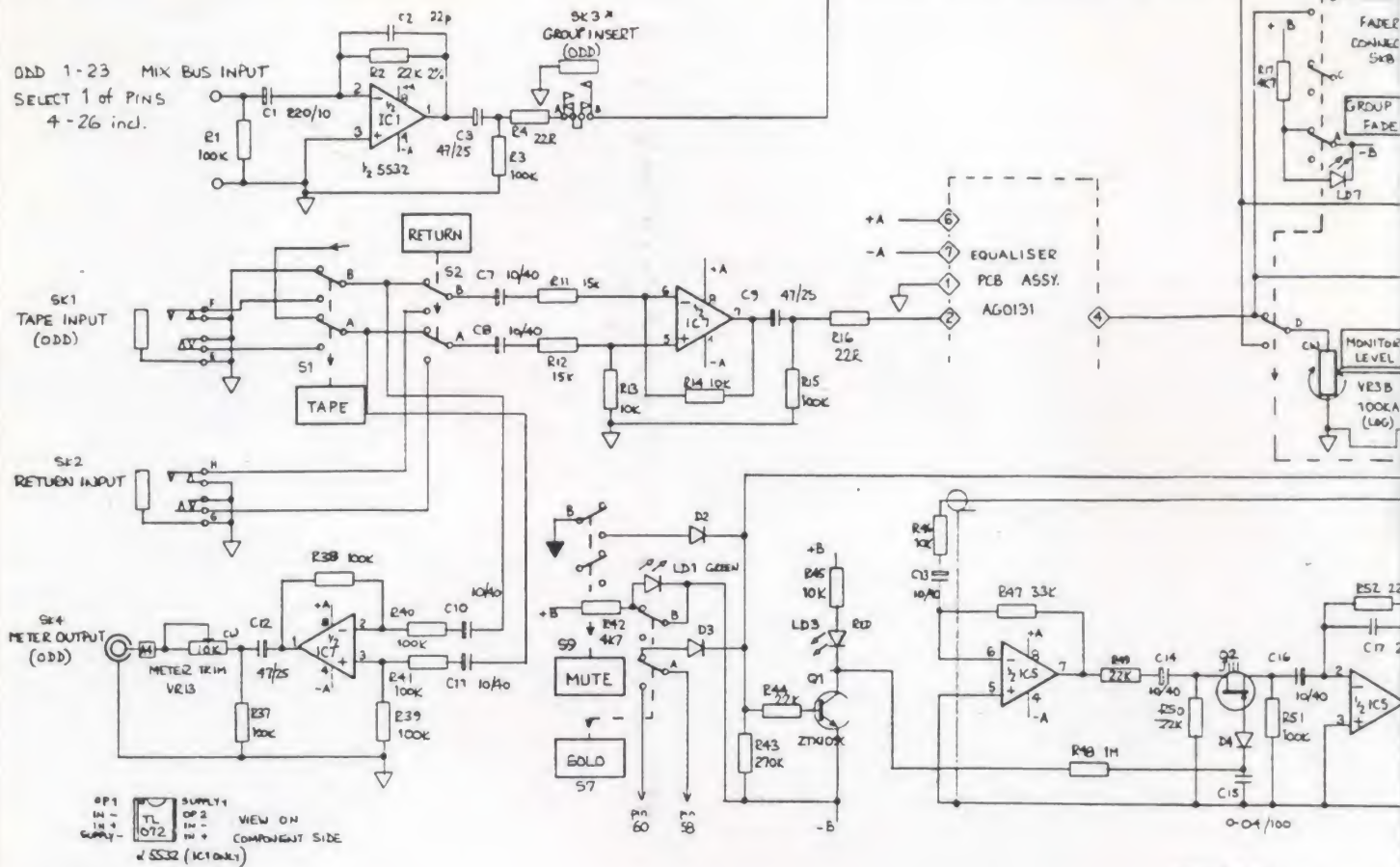
○ GROUP ATTACHED CONFIGURATION
ATTACHMENT PIN FOR SOLDERED BUILT, NUMBER TO THE
GROUP PIN NUMBER. SEE DRAWING PAGE: GROUP POSITION.



PCB ASSEMBLY AG0130 iss 3 Zx100-101 PART of MODULE TYPE M420

BALANCED OUTPUT: FIT EBOS ASST N
CET BING A137
UNBALANCED OUTPUT: FIT JUMPER 1
To JUM A16 to 4 AND
PIN 7 to 5.

ODD 1-23 MIX BUS INPUT
SELECT 1 of PINS
4-26 incl.



STANDARD NOTES

ALL DIMENSIONS IN mm
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
REMOVE ALL BURRS & SHARP EDGES

SCALE

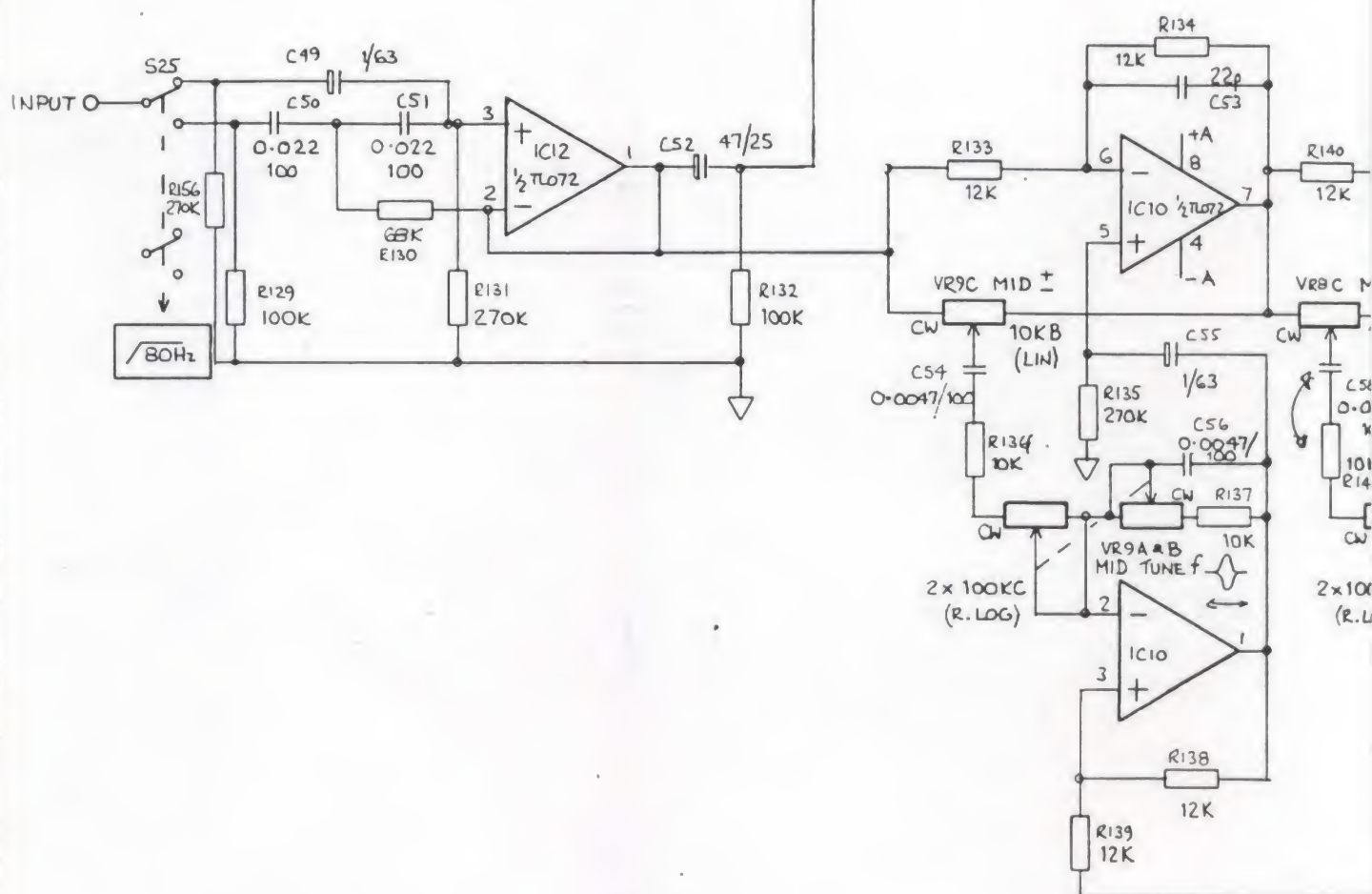
MATERIAL

TOLERANCES

GENERAL ±0.25 mm
HOLE CENTRES ±0.15 mm
HOLE SIZES ±0.10 mm

UNLESS STATED OTHERWISE

PRODUCTION	DATE	CHECKED
SWITCH & EQ. PERS. ADDED MAIN PCB ISS 2		
DRAWN	REVISION	DATE



STANDARD NOTES

ALL DIMENSIONS IN mm
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
REMOVE ALL BURRS & SHARP EDGES

SCALE

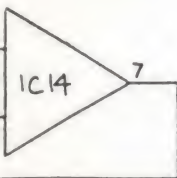
MATERIAL

TOLERANCES

GENERAL ±0.25 mm
HOLE CENTRES ±0.15 mm
HOLE SIZES ±0.10 mm

UNLESS STATED OTHERWISE

DESIGN	REVISION	DATE	CHECKED
2	PRODUCTION	JUN 81	TO



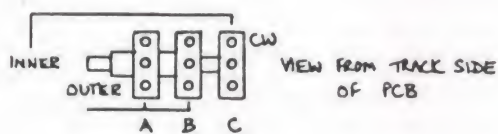
OP1
IN -
IN +
SUPPLY -

TL
072

SUPPLY +
OP2
IN -
IN +

RESISTORS 1/4W 5% UNLESS SPECIFIED
CAPACITORS SHOWN VALUE/VOLTAGE

SWITCHES SHOWN RELEASED



UNUSED

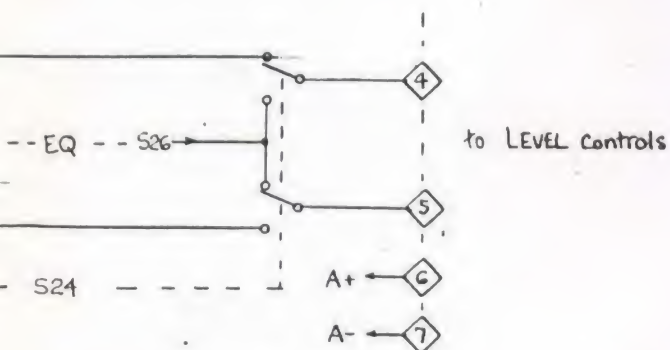
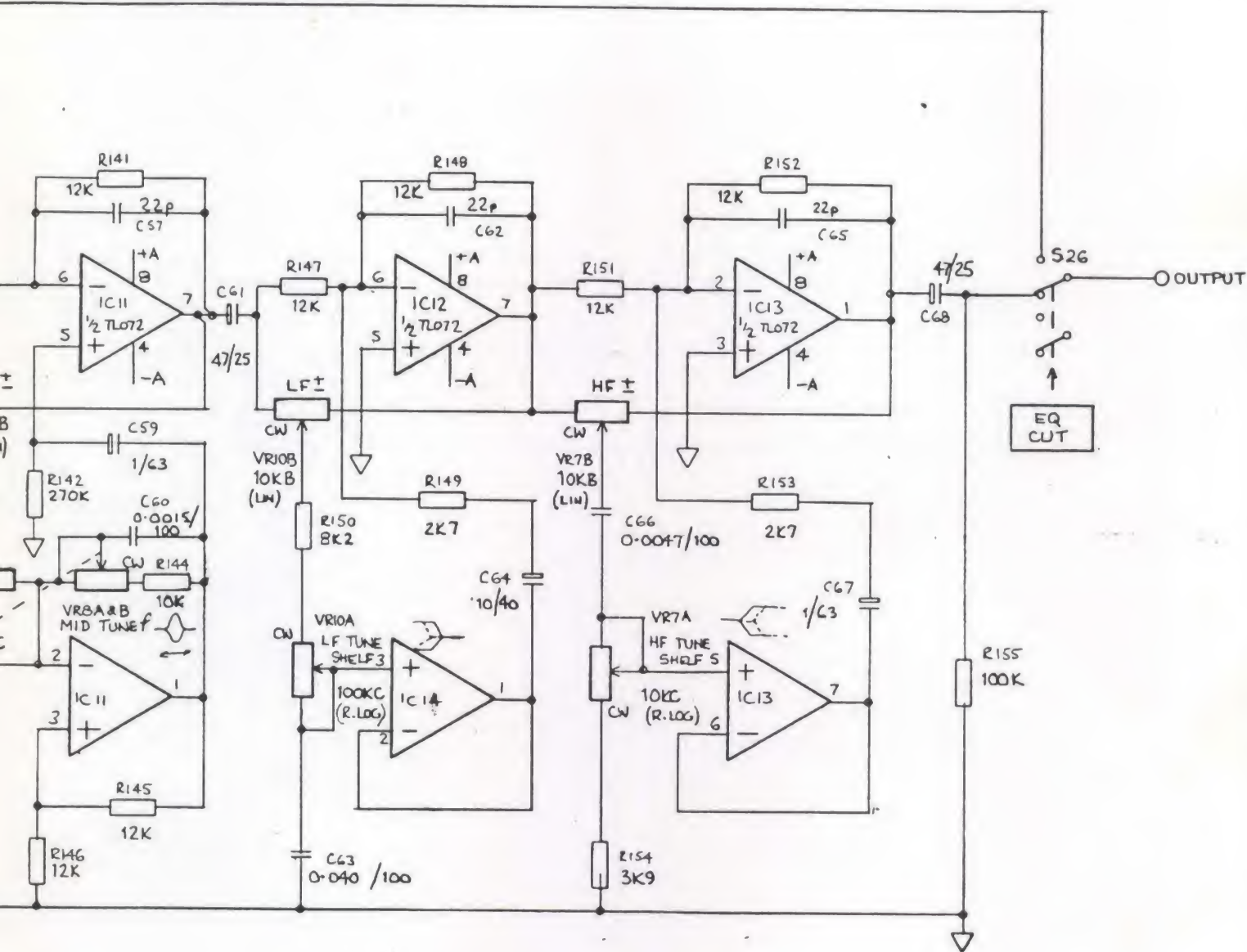
LAST

B

156

C

68



NISH

NOTES

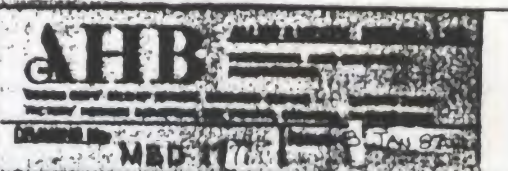
PCB AGO131

UNIT TITLE

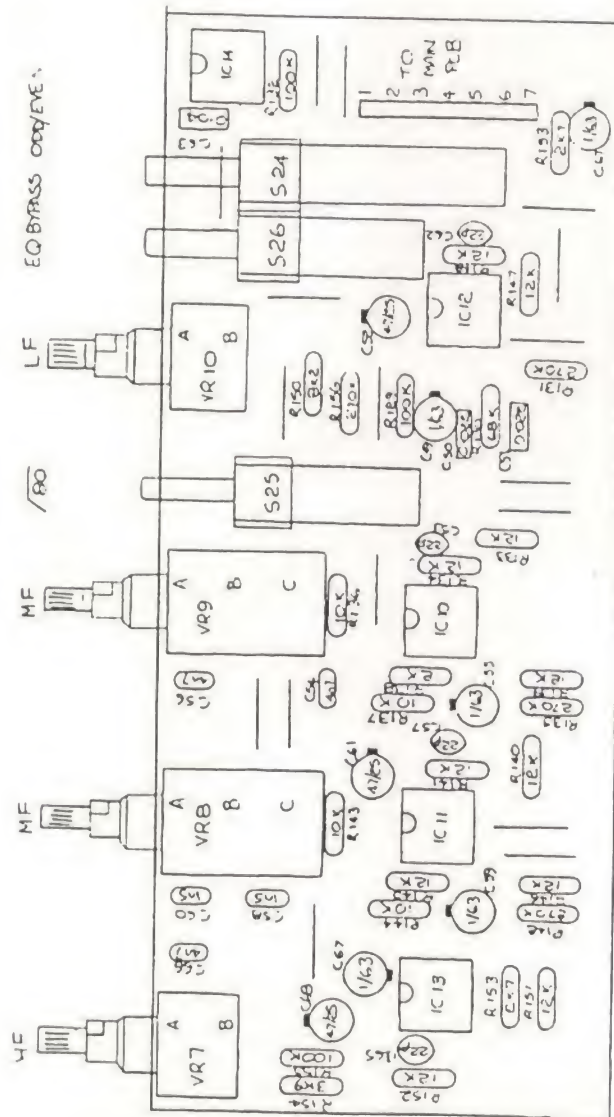
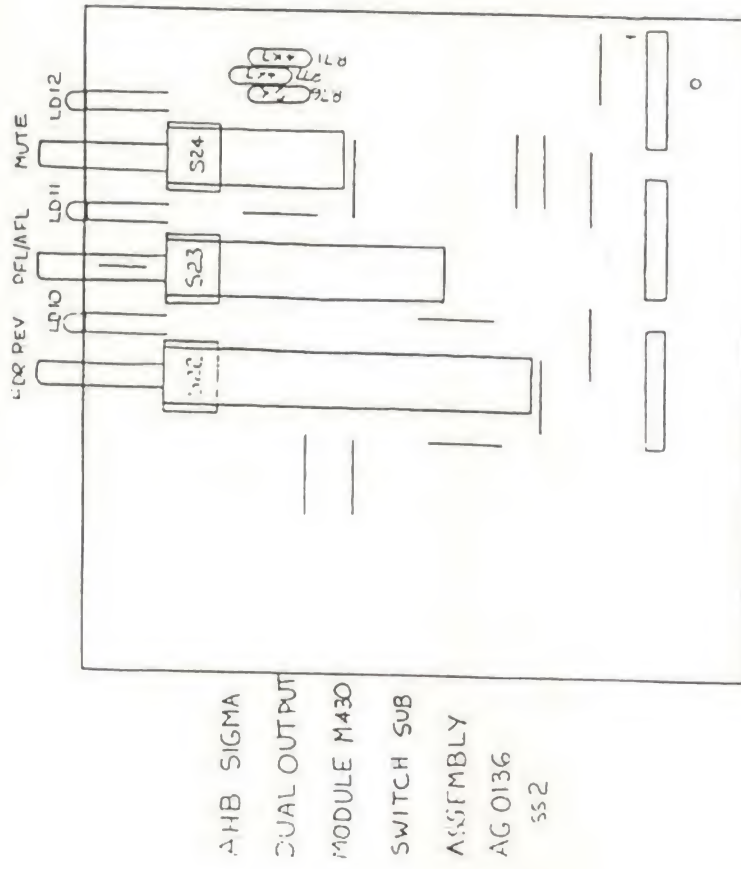
AHB SIGMA

DRAWING TITLE

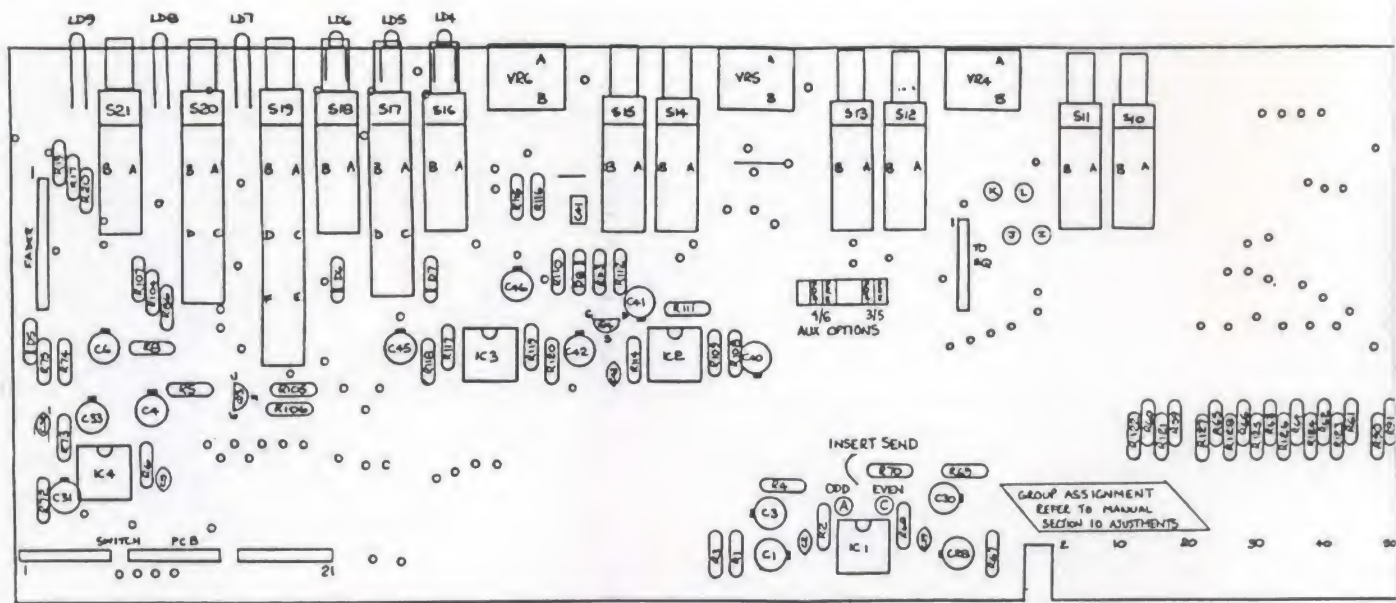
EQUALISER for DUAL OUTPUT
MODULE TYPE M430

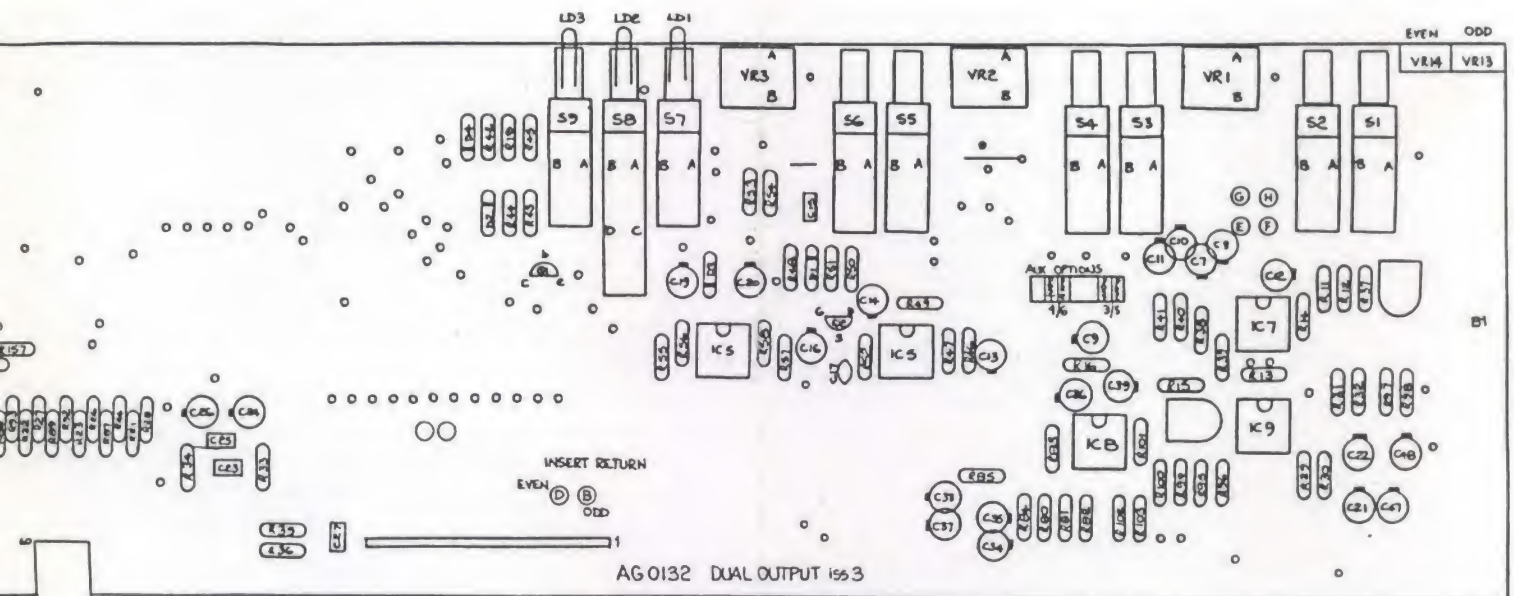


ARTWORKER PCB DESIGN

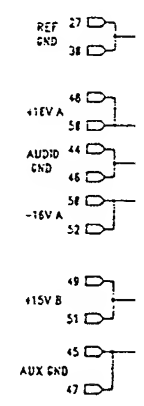
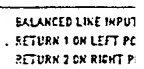


AHB SIGMA DUAL OUTPUT MODULE M430 EQUALISER PCB AG 0131





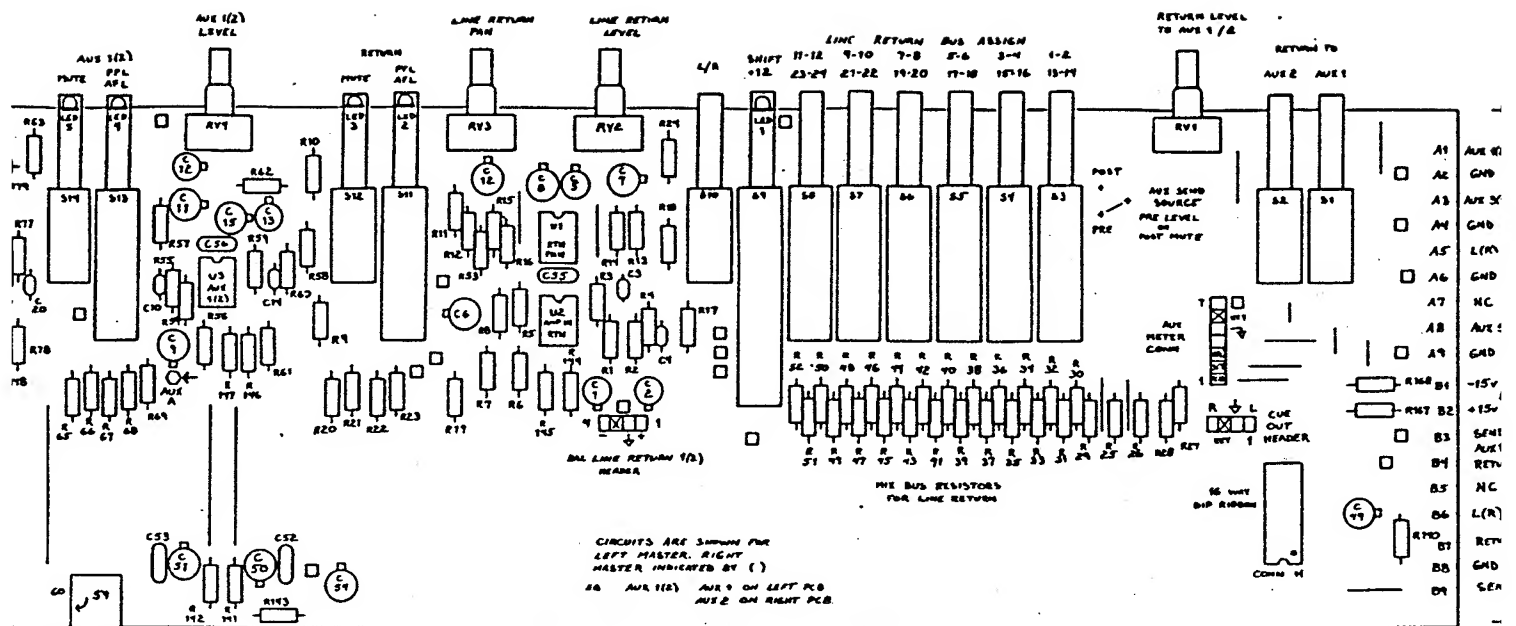
PCB ASSEMBLY DUAL OUTPUT FOR MODULE TYPE M430



PCB CAN BE CO
RIGHT WASTE
CORRESPONDIN
AS — L —
CIRCUITS ARE
RIGHT FUNCTI
ER. AUX 1(2)
THE SAME CIR
WHEN ON THE

DRAWN	REVISION	DATE	CHECKED	LAST USED	LS. - LOW SPEAKER
-------	----------	------	---------	-----------	-------------------

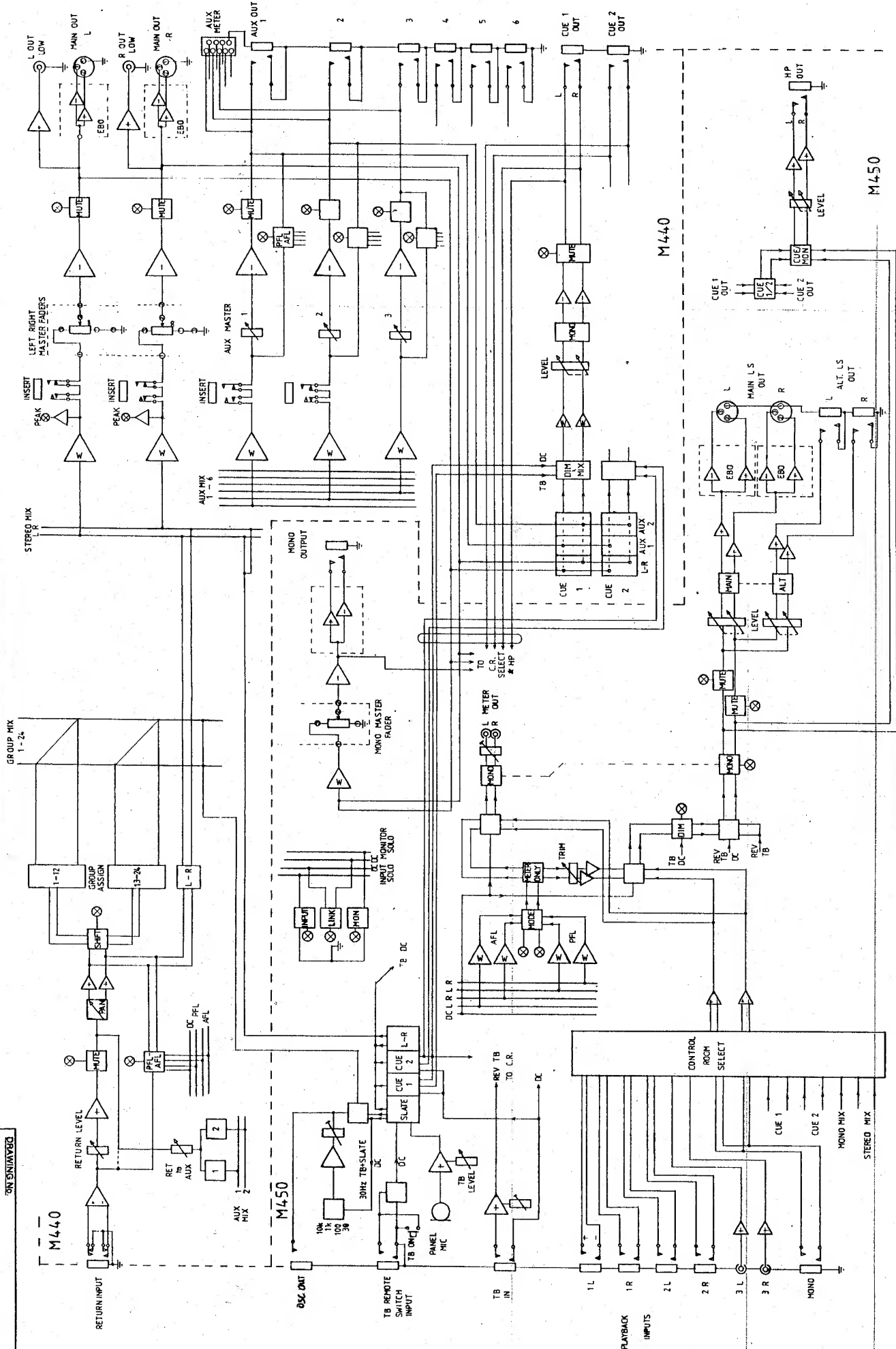




DRAWING NO.

GROUP MIX
1-24

STEREO MIX
L-R



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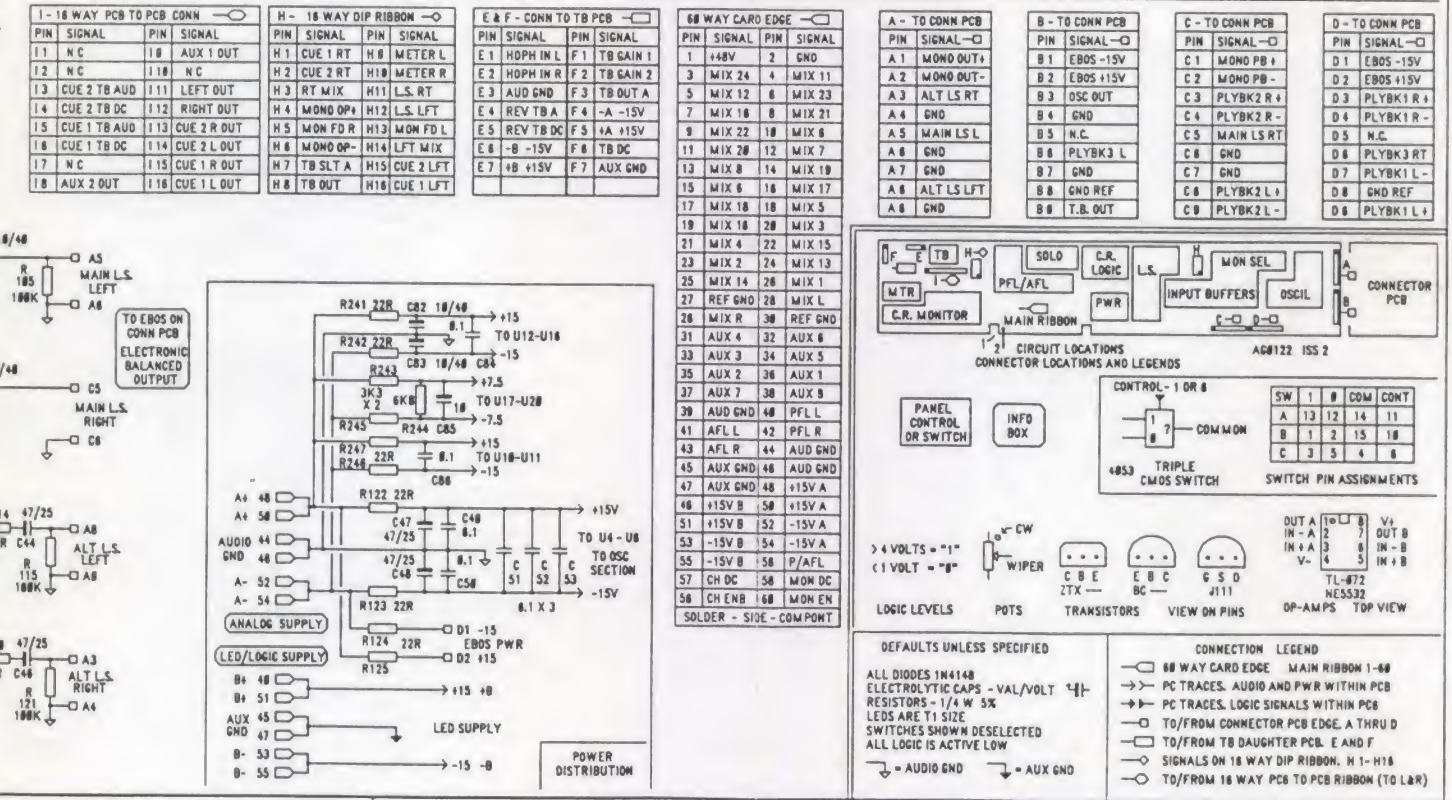
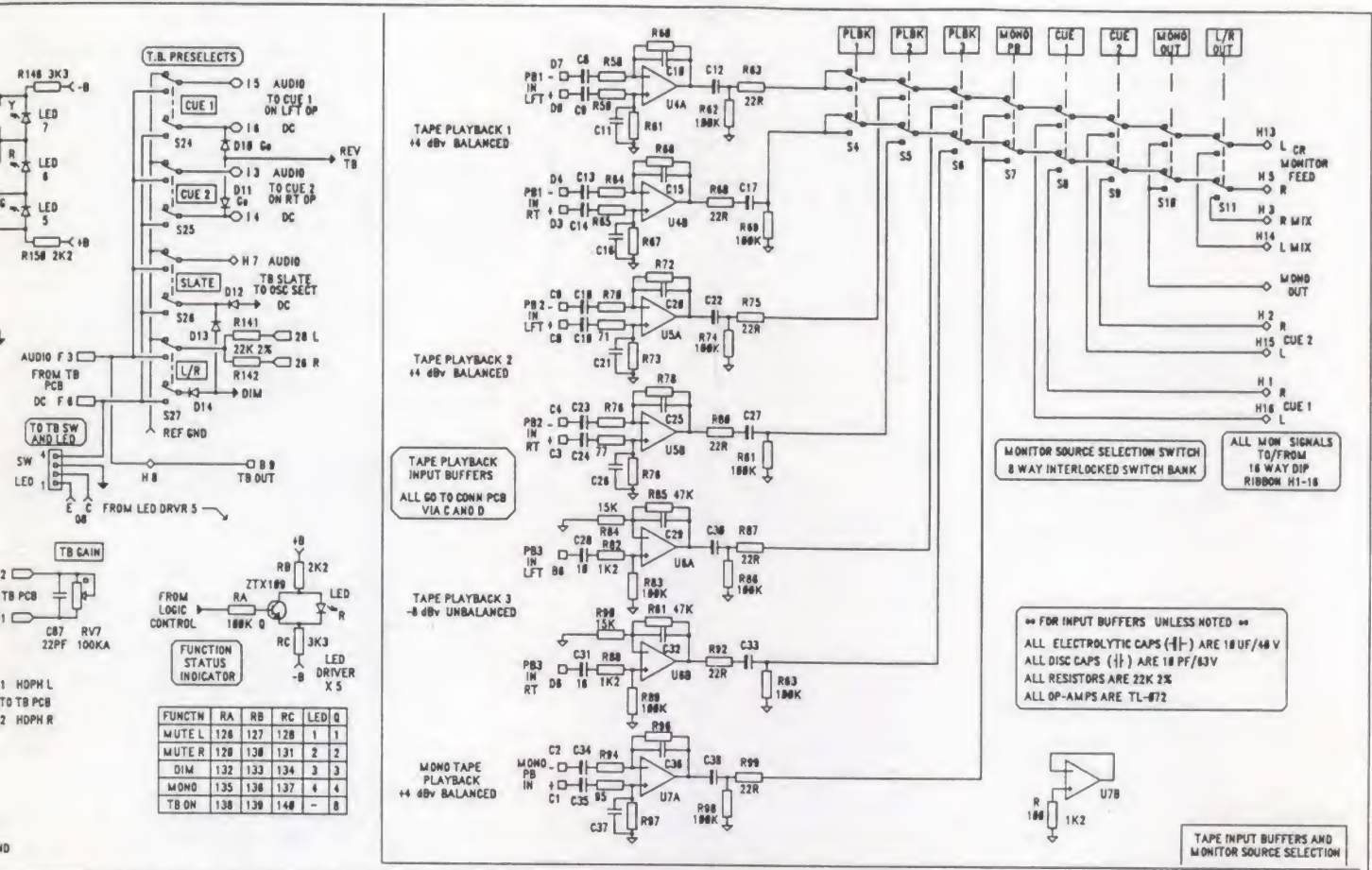
AHB SIGMA M441 MODULE INFORMATION

The M441 module has two extra auxiliary master circuits and outputs, making eight in total. These two are numbered 7 and 8.

Their panel controls are immediately below those of aux 5 and 6.

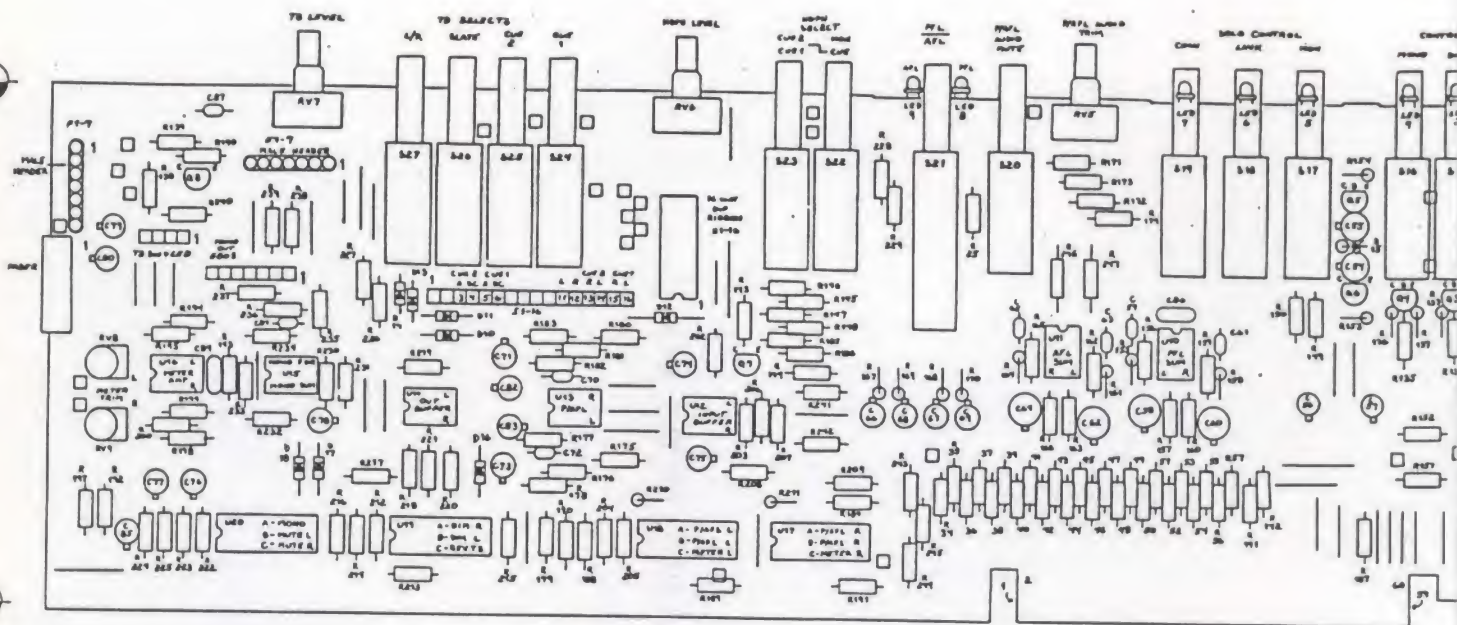
The circuits and components are identical to 5 and 6 and appear to the left of 5 and 6 on the component overlay.

These extra circuits are wired to the aux meter "D" connector.



UNIT TITLE		AMB SIGMA	
DRAWING TITLE		MONITOR MASTER PCB AG0122 ISS 2 SCHEMATIC	
DRAWING No.		MBD 182	
ISSUE		1	

MONITOR MASTER AG0122 iss 2.
superseded by iss 3 JAN 87.



DRAWING BY JAP 2 OCT 64

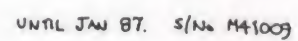
AHB

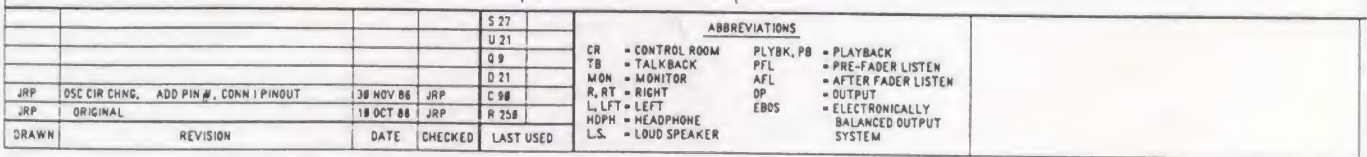
SIGMA

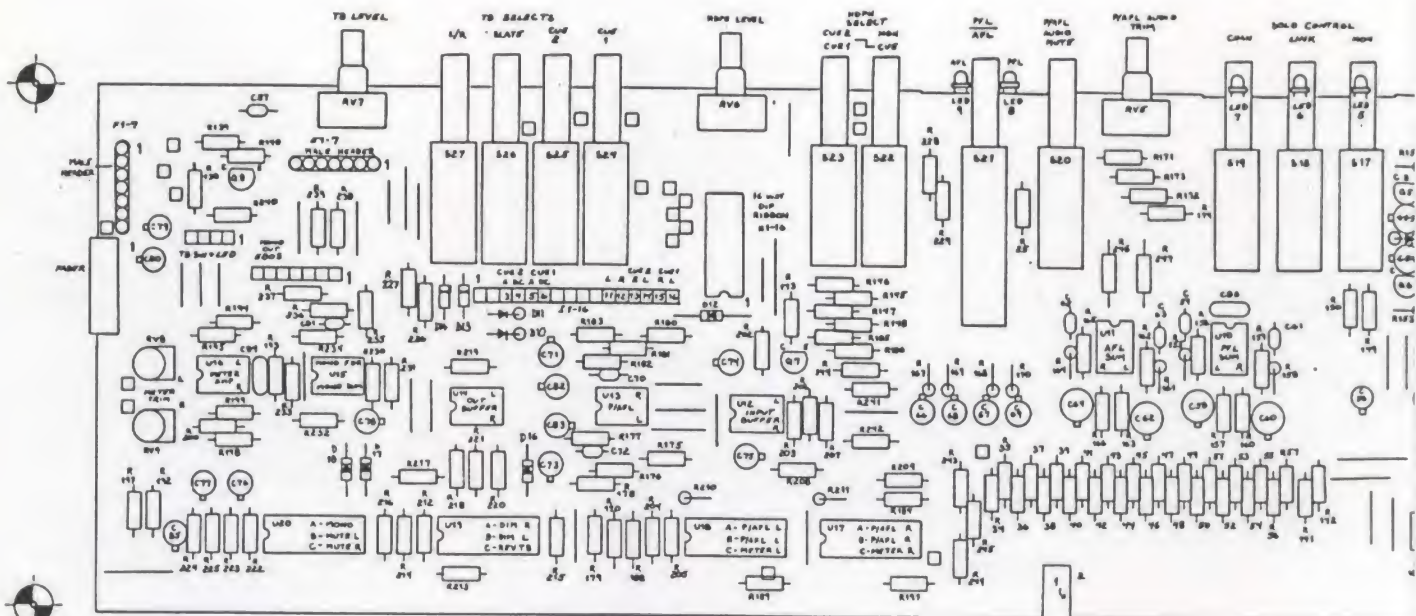
MON MASTER PCB

AGO122 ISS 2

COMPONENT OVERLAY







DRAWN BY JAP WVP 86

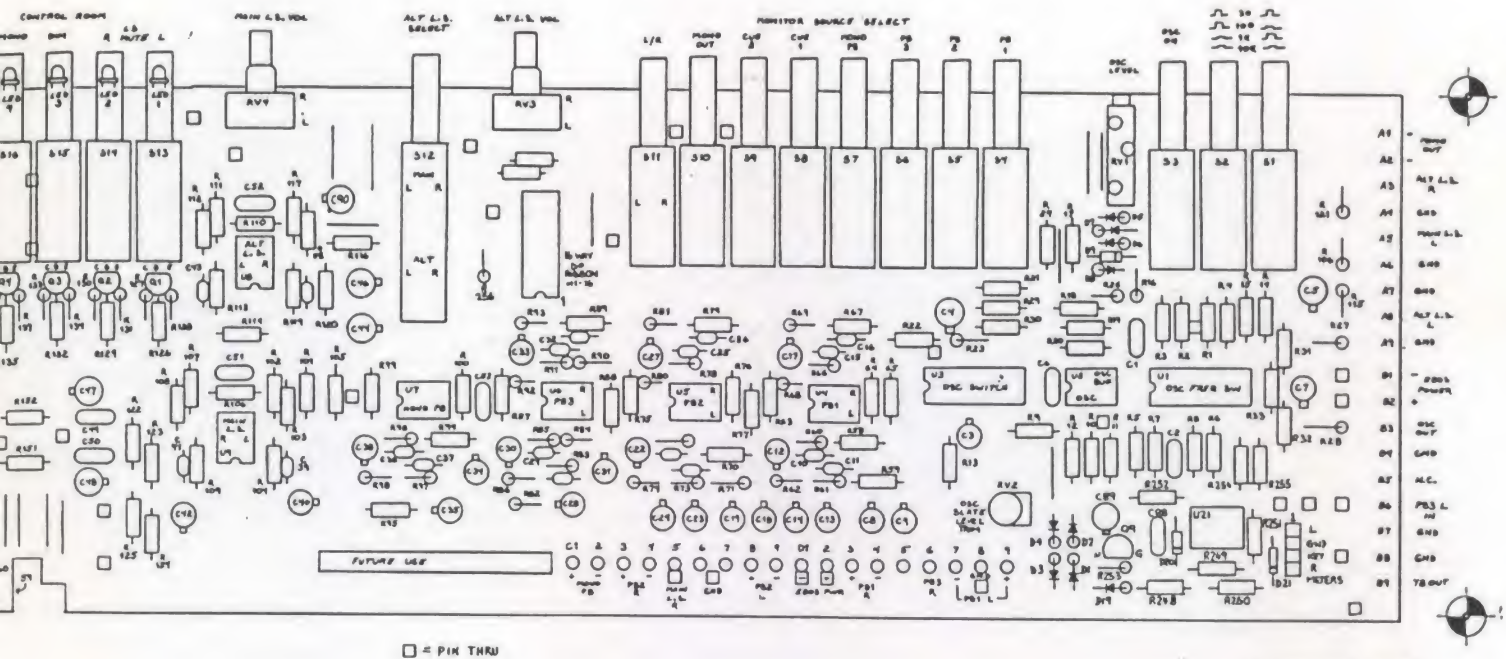
AHB

SIGMA

MON MASTER PCB

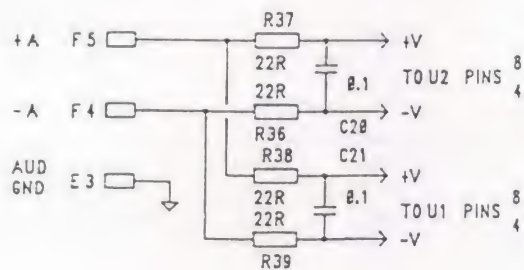
AG0122 ISS 3

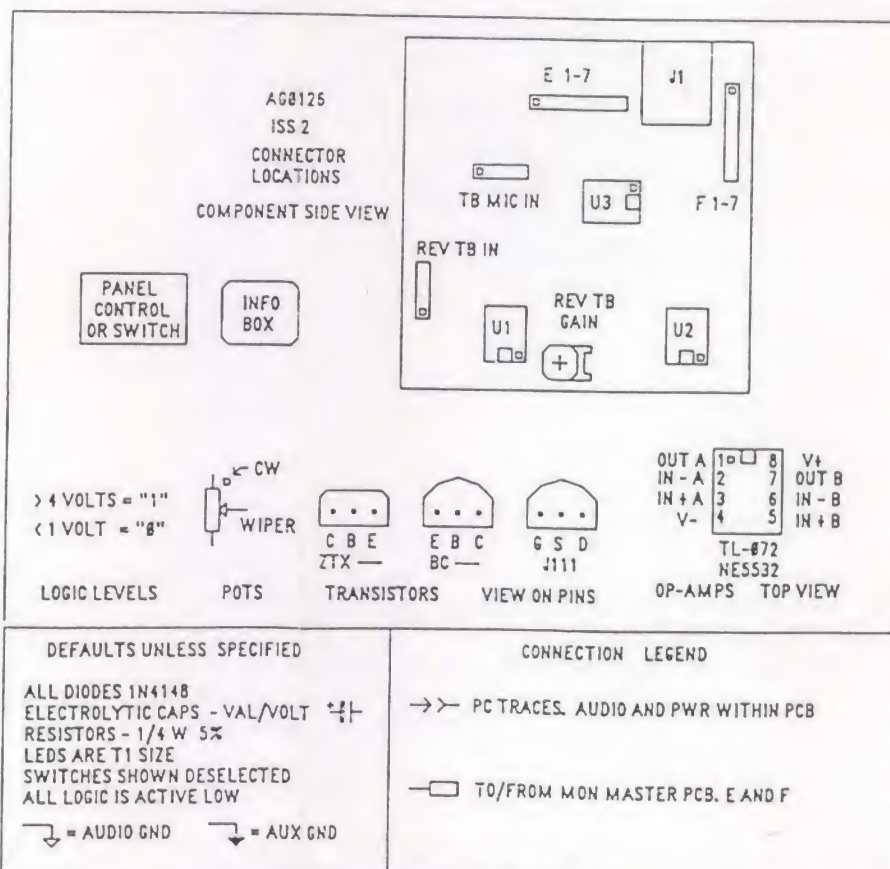
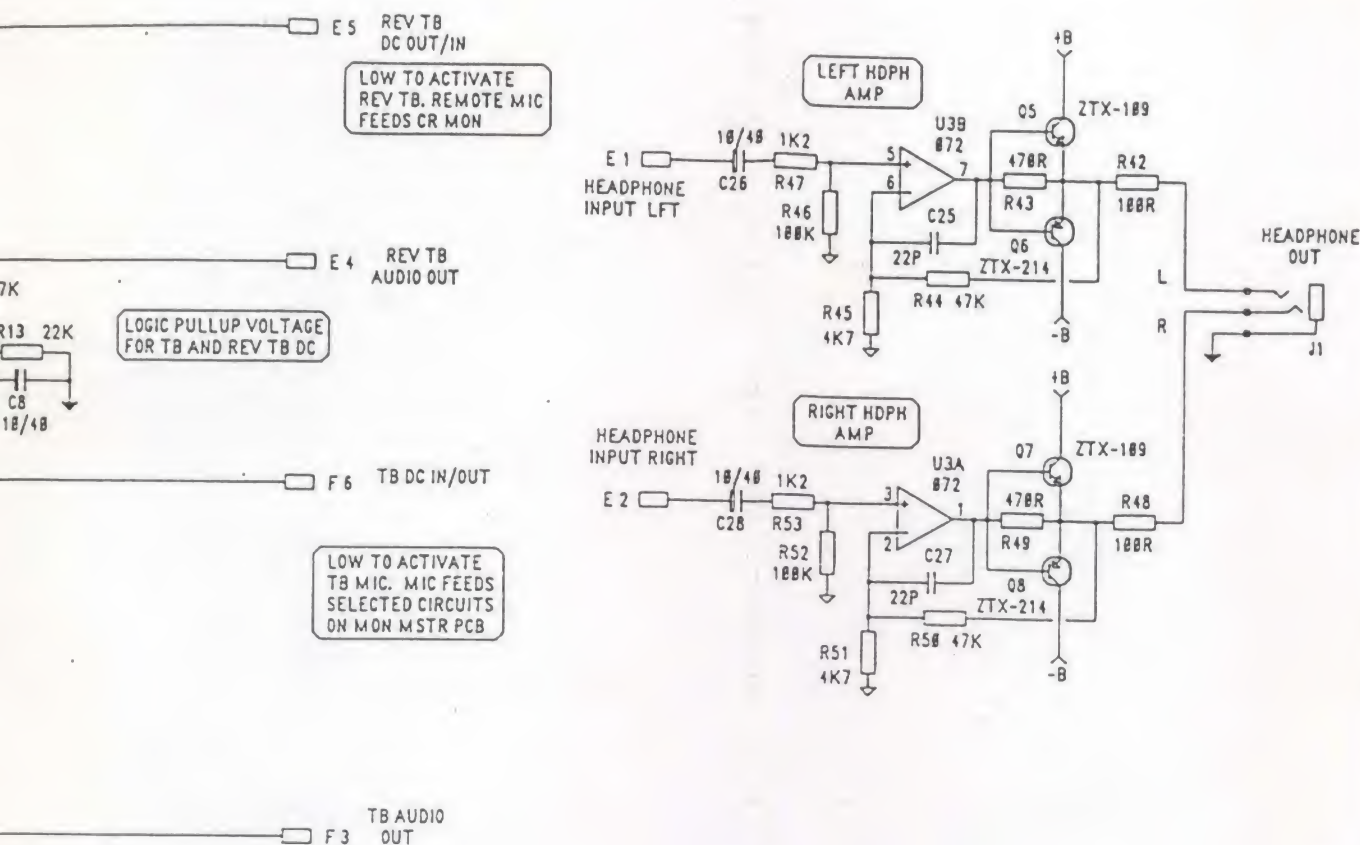
COMPONENT OVERLAY



M450 iss3 PCB

From S/N 0 M41010

[illegible]



E & F - CONN TO MM PCB			
PIN	SIGNAL	PIN	SIGNAL
E 1	HDPH IN L	F 1	TB GAIN 1
E 2	HDPH IN R	F 2	TB GAIN 2
E 3	AUD GND	F 3	TB OUT A
E 4	REV TB A	F 4	-A -V
E 5	REV TB DC	F 5	+A +V
E 6	-B -V	F 6	TB DC
E 7	+B +V	F 7	AUX GND

UNIT TITLE

AHB SIGMA

DRAWING TITLE SCHEMATIC AGB125

TALKBACK/HEADPHONE PCB ISS 2

• USED WITH MON MASTER PCB •

AHB

DRAWING No. MBD163

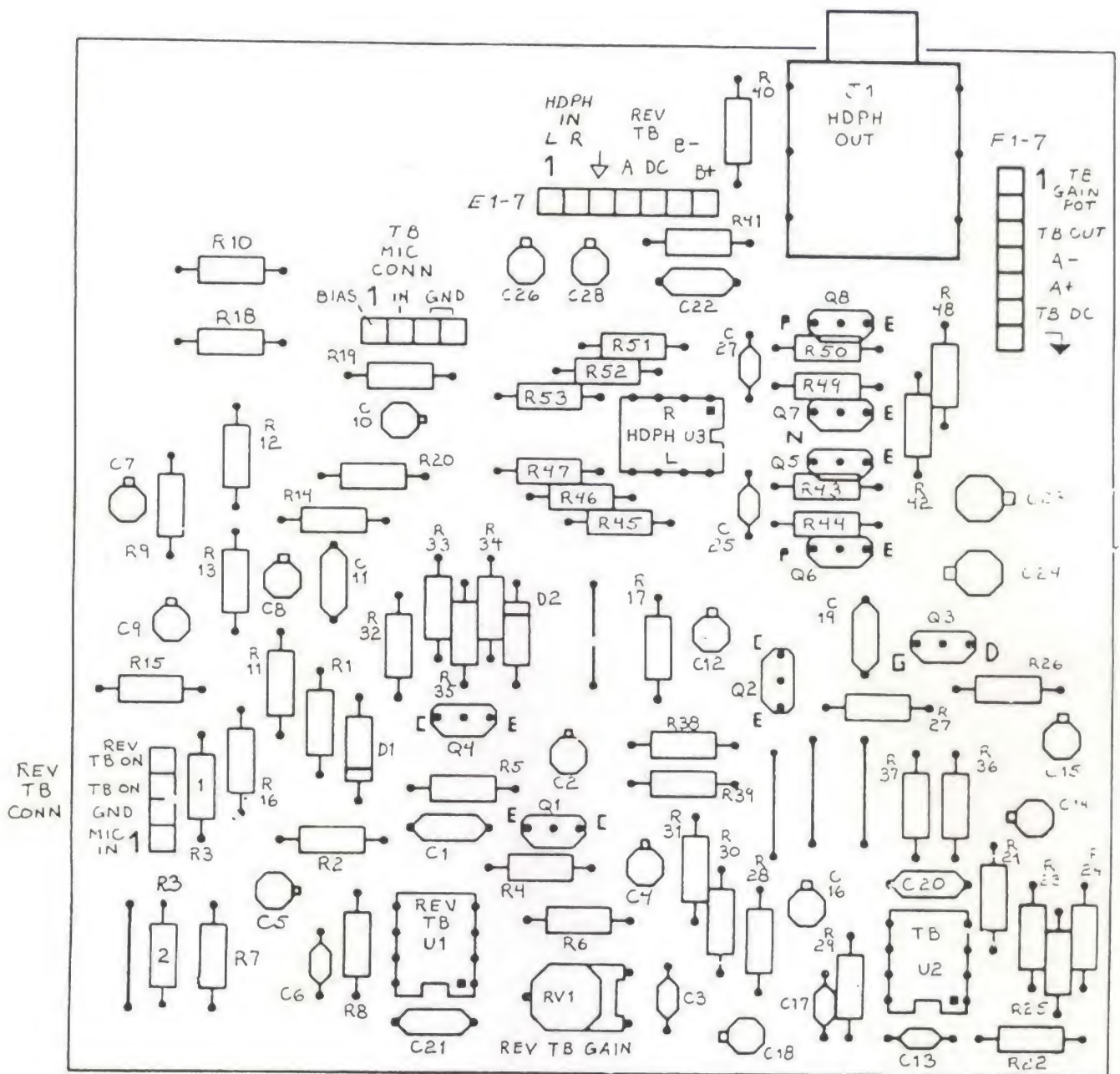
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MANUFACTURERS

ISSUE

2

TB (M450)

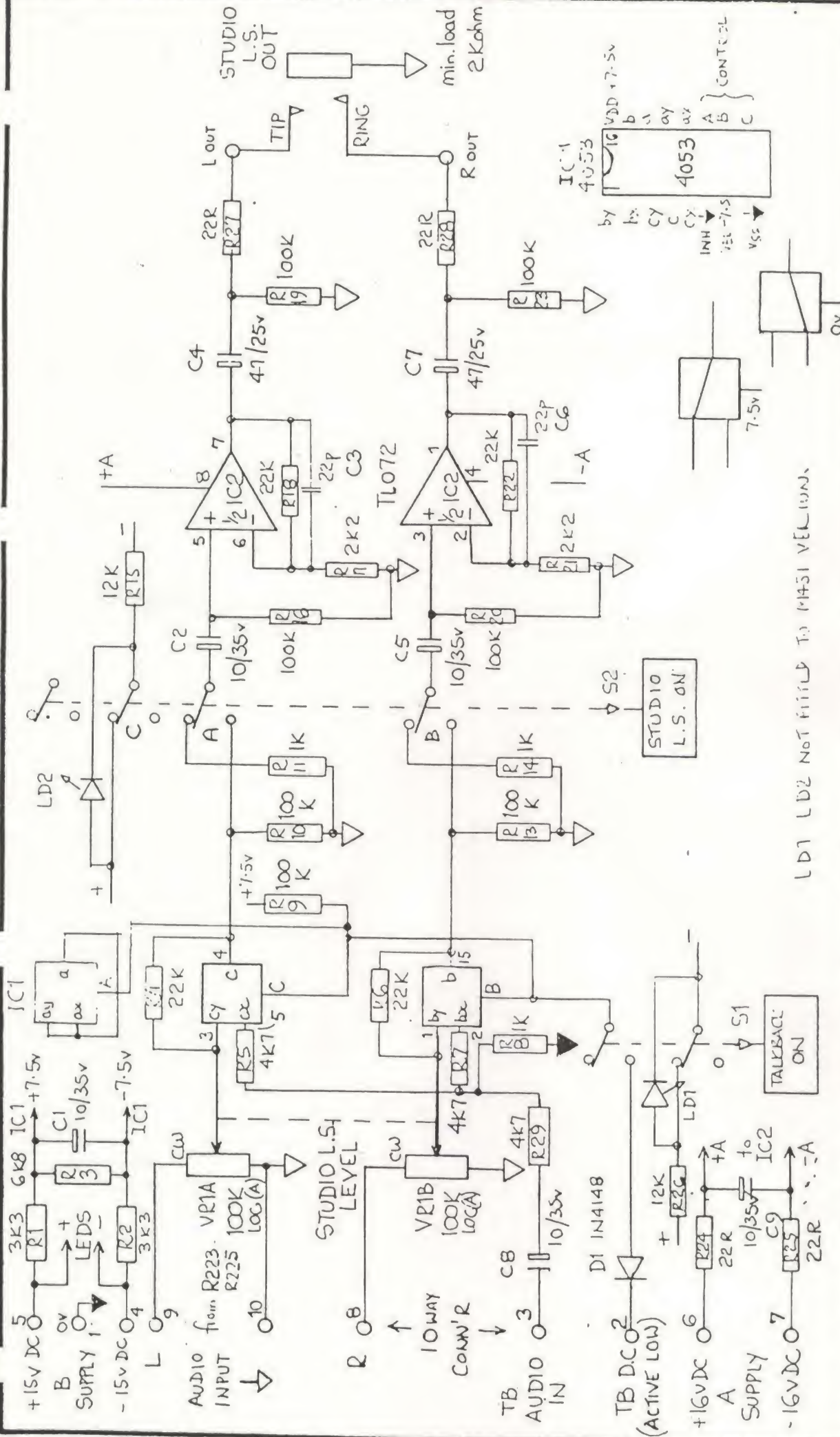


AHB SIGMA TB PCB AGO126 ISS 2

R3: POSITION 1 FOR ELECTRET MICROPHONES WHICH REQUIRE BIAS (+7.5V DC)
POSITION 2 FOR DYNAMIC MICROPHONES.

CONSOLES ARE SHIPPED SET WITH POSITION 2.

TB



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FACTORY: KEMLOCK INDUSTRIAL EST., PLYMOUTH, CORNWALL PL 12 7JW TEL 0234 72070

DRAWING No.

15849

TITLE

STUDIO L.S. PCB CCT. AGO199 iss 1

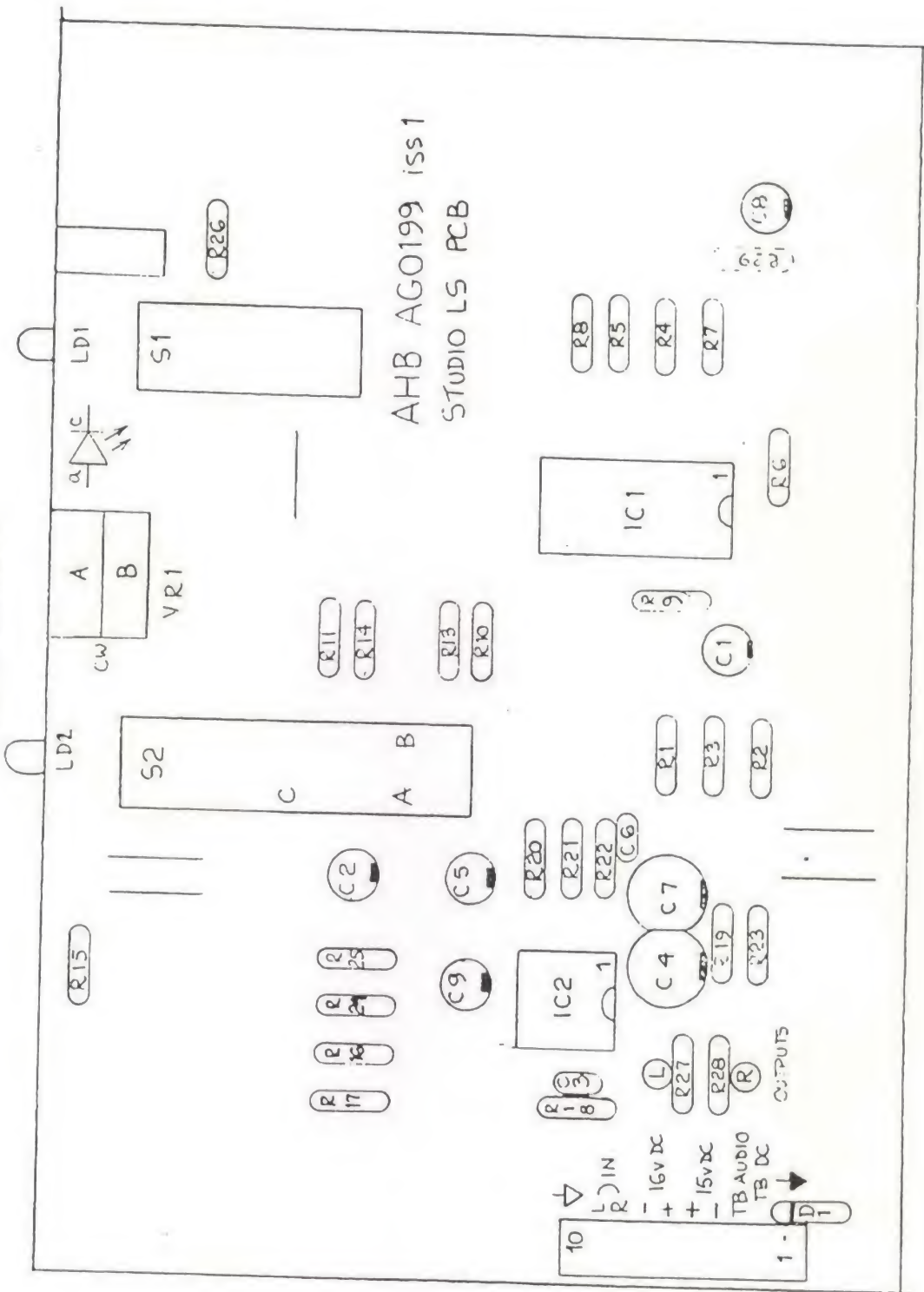
PART of AHB SIGMA M451 ASSEMBLY

DRG. No.

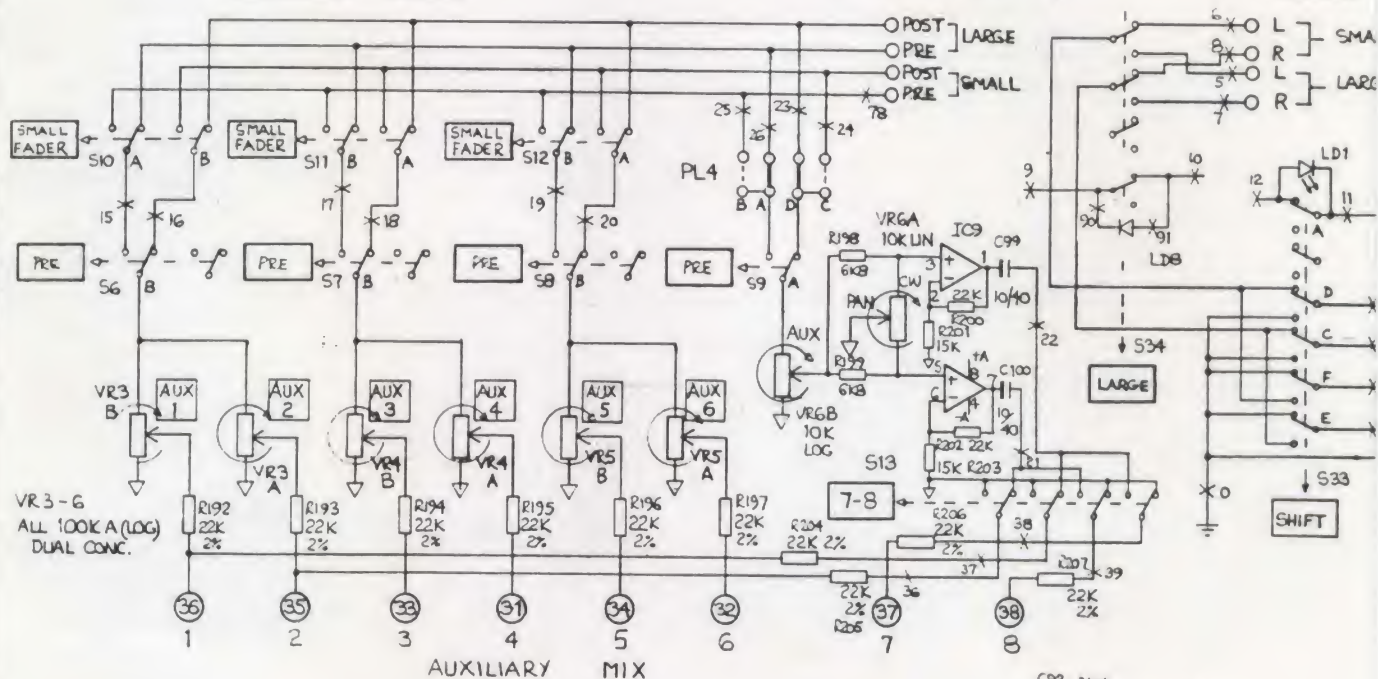
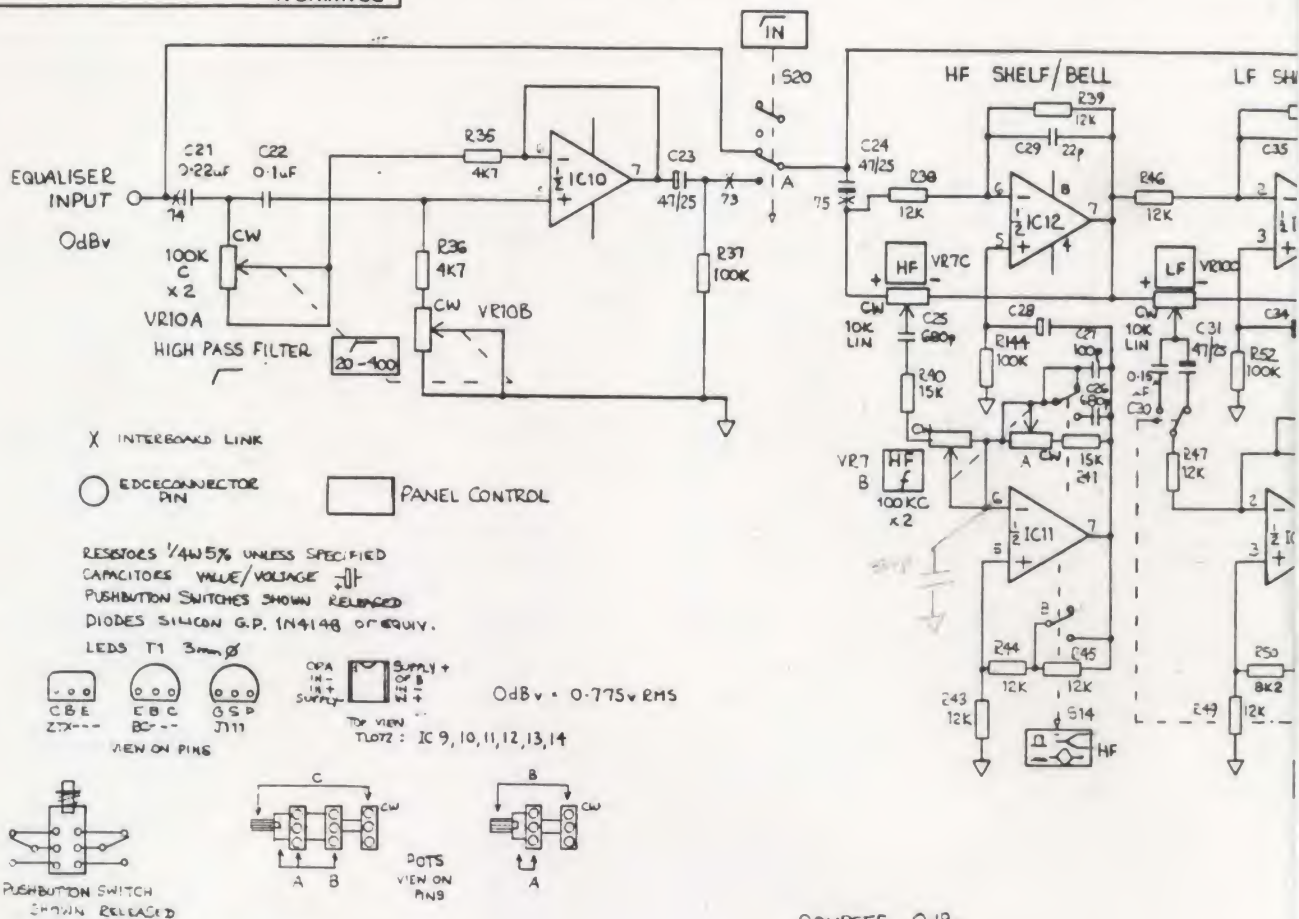
A170

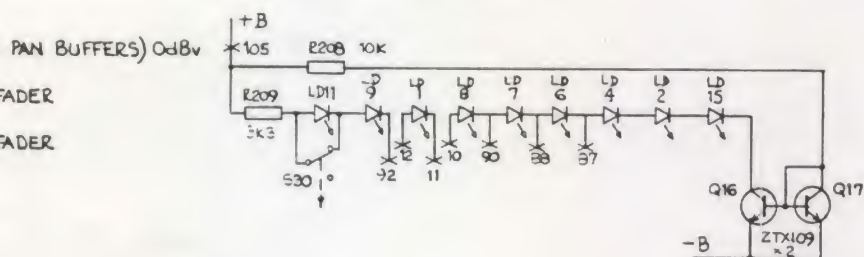
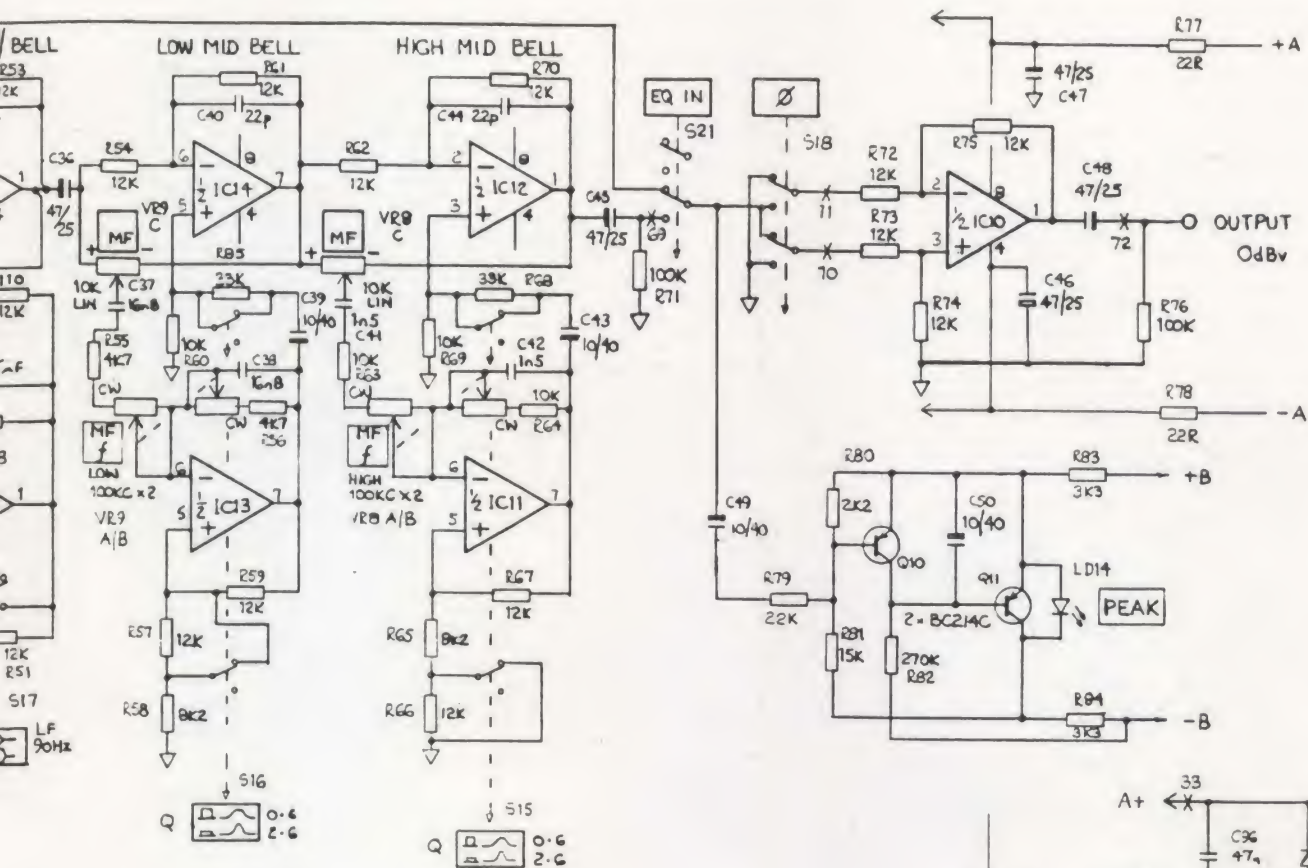
T 8 JAN 88

M451 MODULE
LD1, 2 NOT FITTED

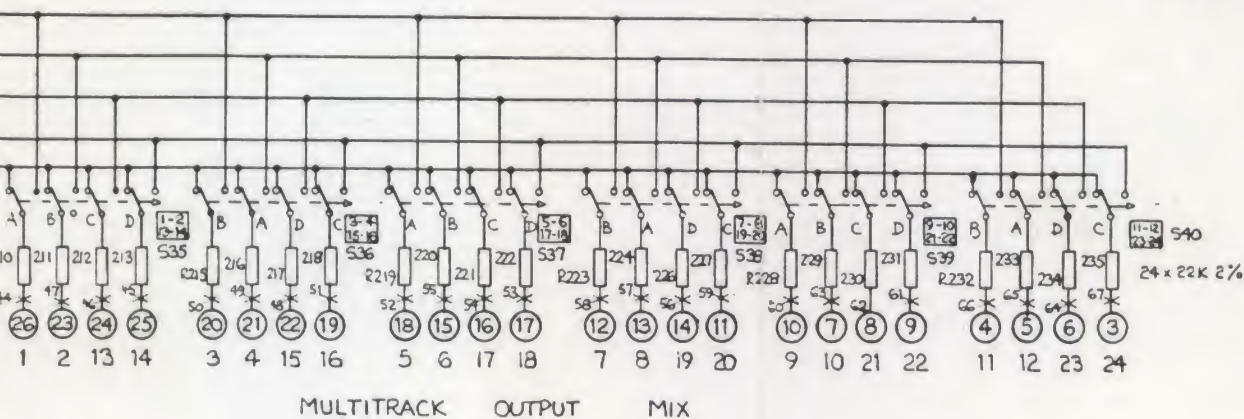


AHB AGO199 iss1
STUDIO LS PCB

[illegible]

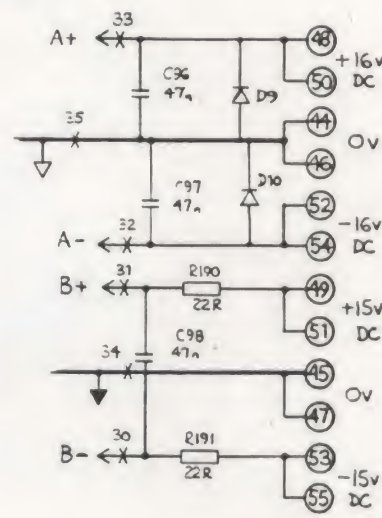


GROUP ASSIGN



AMPLIFIER SUPPLY

INDICATOR SUPPLY



ISH

NOTES

APPLIES TO PCB TYPES
AGO184 155 3
AGO185 155 3

UNIT TITLE

AHB SIGMA SERIES

DRAWING TITLE

M470 CCT. PART 2 of 3

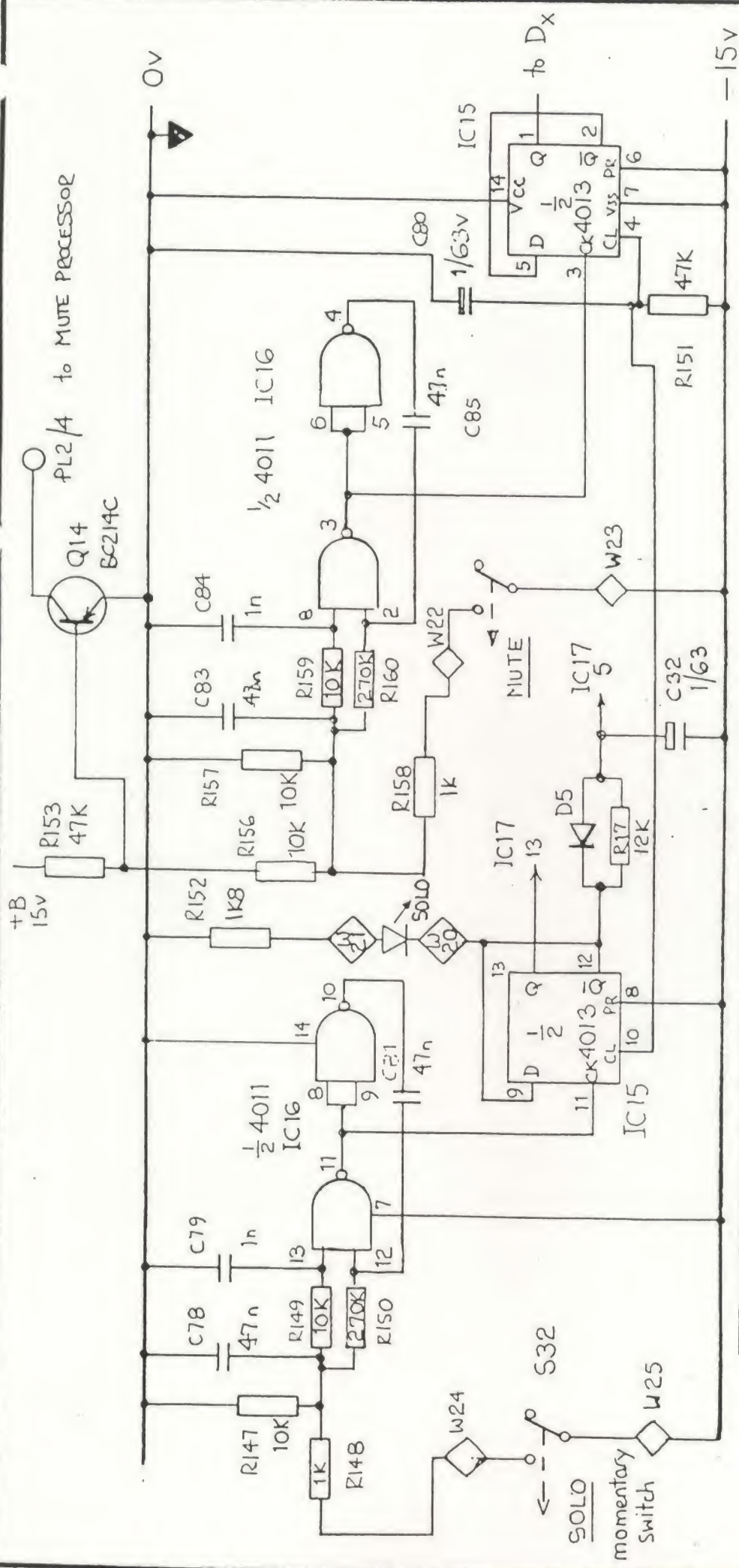
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DESIGN DEPT. 64 SHIP STREET, BRIMFORD BH1 1AE Tel 0373 24808
FACTORY: KEMPICK INDUSTRIAL ESTATE, PENRYN, CORNWALL TR 10301 72070

DRAWING No. MBD188

ISSUE 4



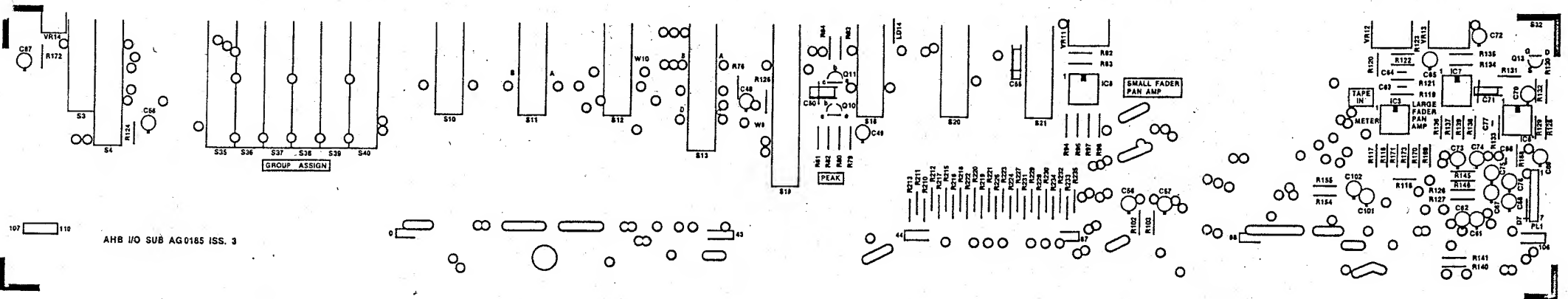
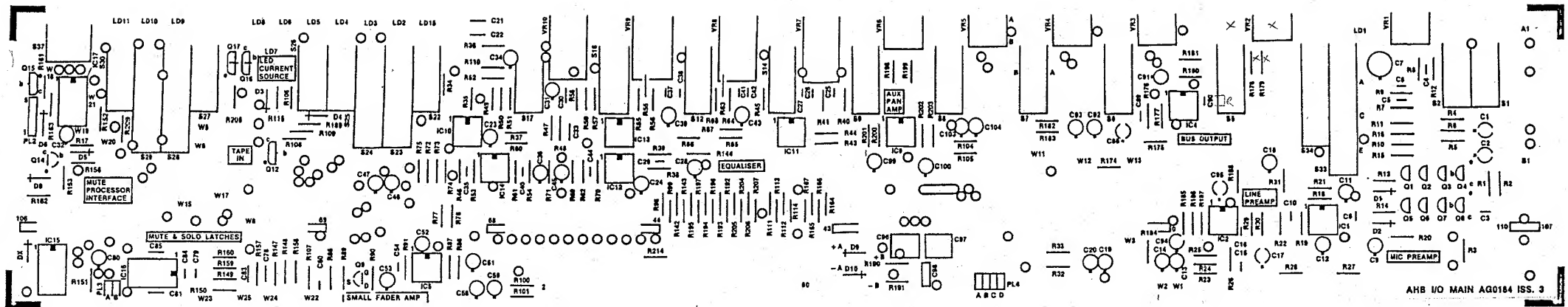
SOLO LATCH	CK	Q	\bar{Q}	SOLO LED	IC17 $P_{151/2}$
POWER UP	LOW	LOW	HIGH	OFF	O/C
NOT SOLO	LOW	LOW	HIGH	OFF	O/C
SOLO	HIGH	HIGH	LOW	ON	G/C

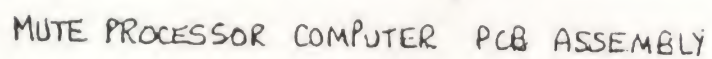
MUTE LATCH	CK	Q	\bar{Q}	MUTE LED	Q17	AUDIO
POWER UP	LOW	LOW	HIGH	OFF	OFF	ON
NOT MUTE	LOW	LOW	HIGH	OFF	OFF	ON
MUTE	HIGH	HIGH	LOW	HIGH	ON	OFF

MUTE LATCH NOT USED ON M470 + MUTE PROCESSOR. SEE M470 + MUTE PROCESSOR. D x OMIT MUTE LATCH LED WHEN M470 + SEE OF M470 + MUTE PROCESSOR. D x FIT

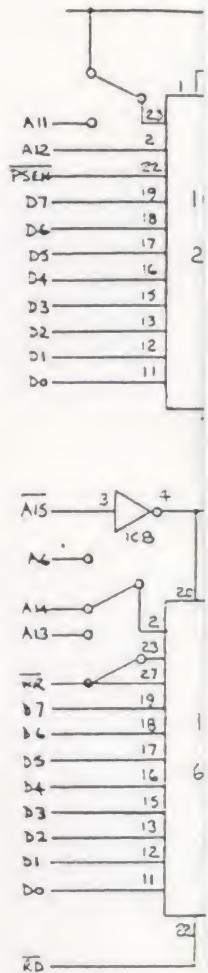
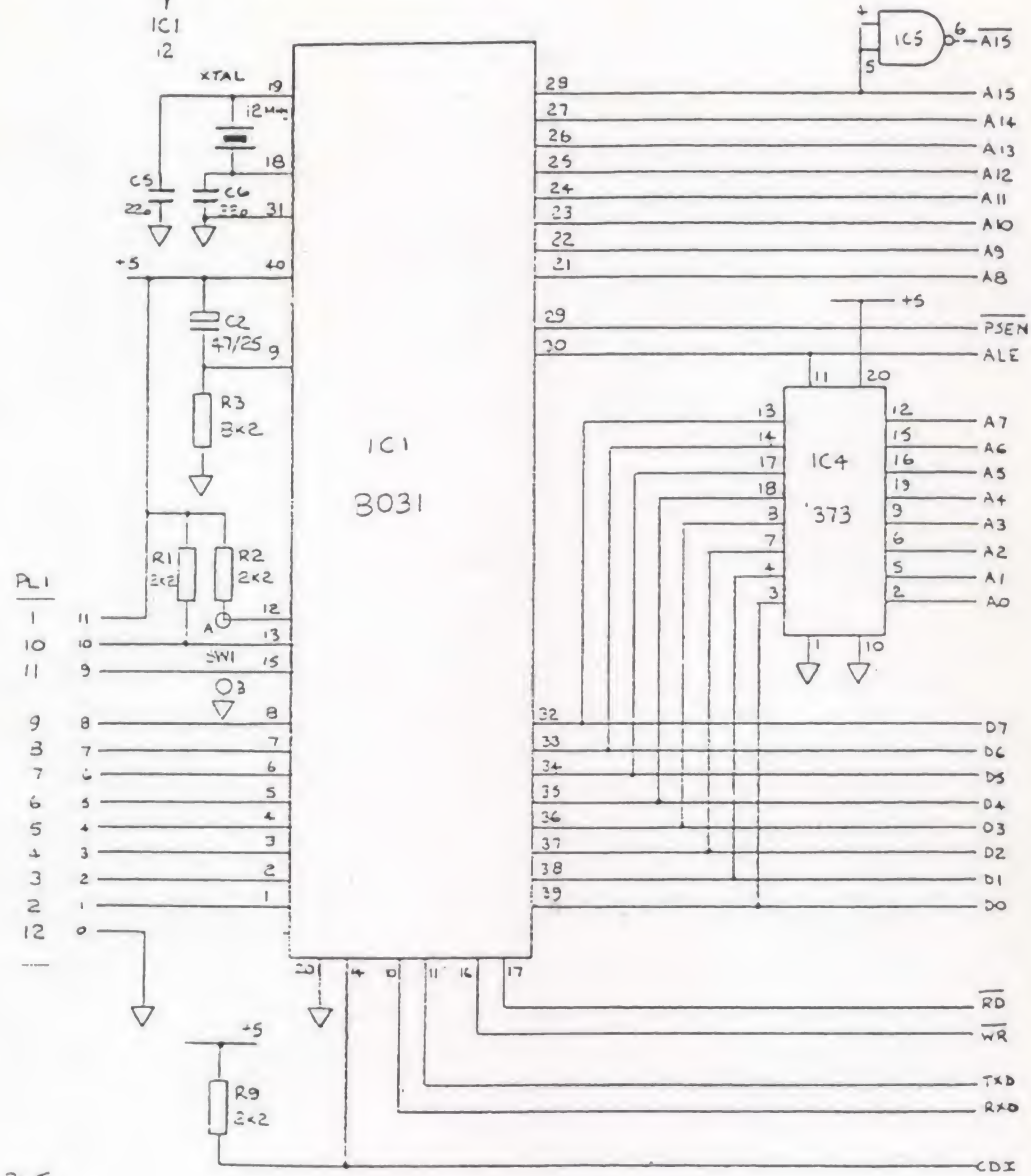
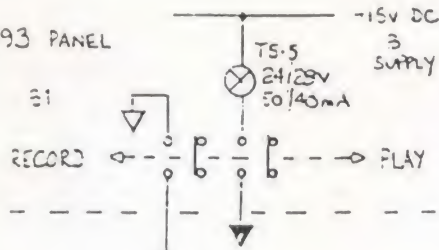
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TITLE AHB SIGMA I/O M470 LATCH PART of AG0184.





M493 PANEL



DC IN

From CONSOLE SUPPLY

STANDARD NOTES

ALL DIMENSIONS IN mm
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
REMOVE ALL BURRS & SHARP EDGES

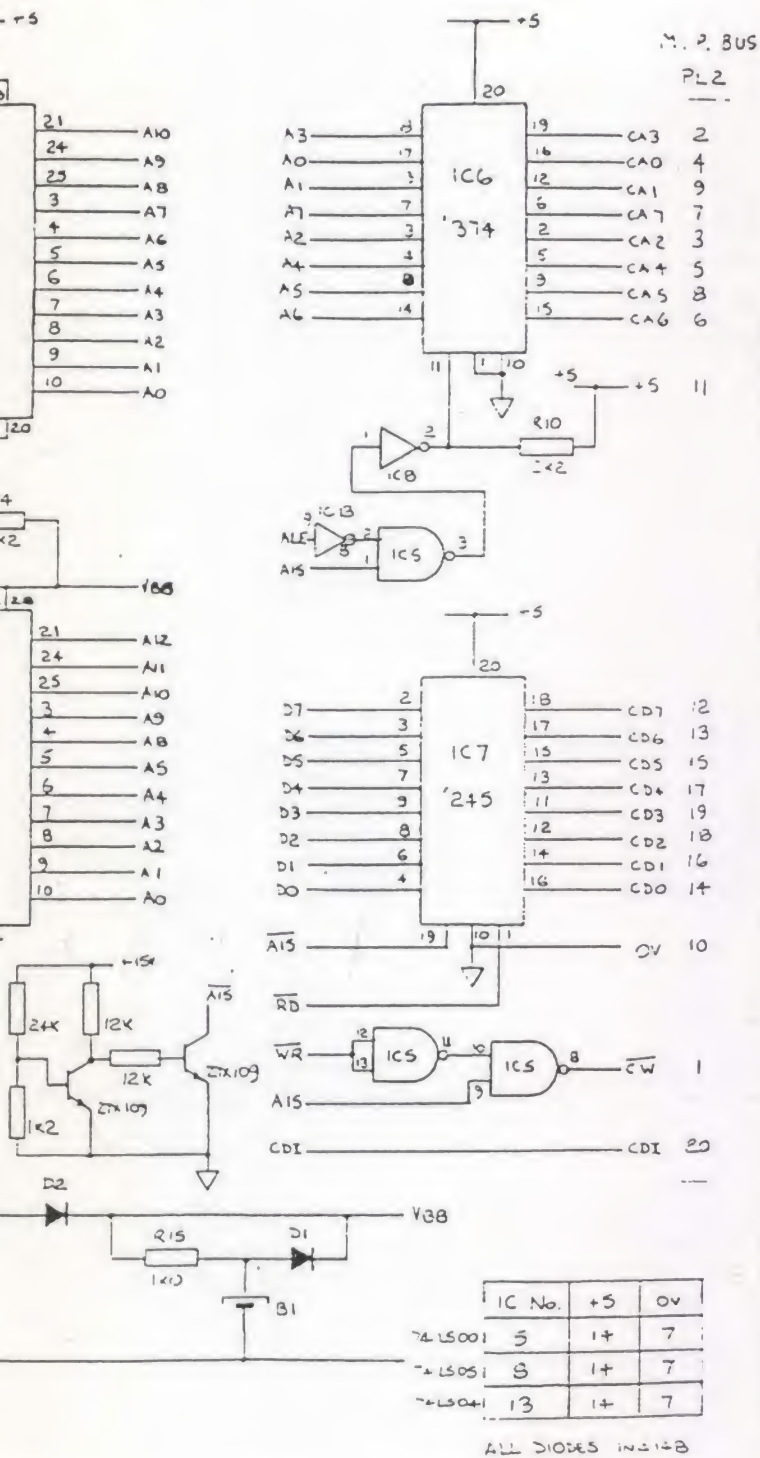
MATERIAL

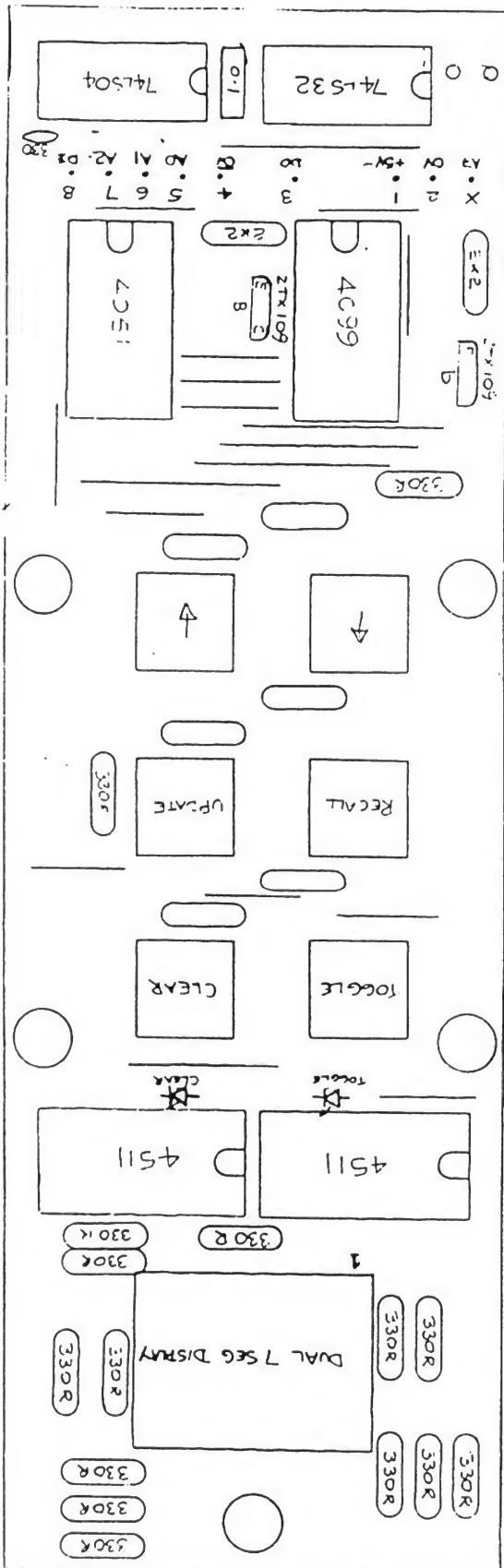
TOLERANCES

GENERAL ±0.25 mm
HOLE CENTRES ±0.15 mm
HOLE SIZES ±0.10 mm

SCALE

UNLESS STATED OTHERWISE





MUTE PROCESSOR
AG0188
ISS 1

DRAWING No.

18540

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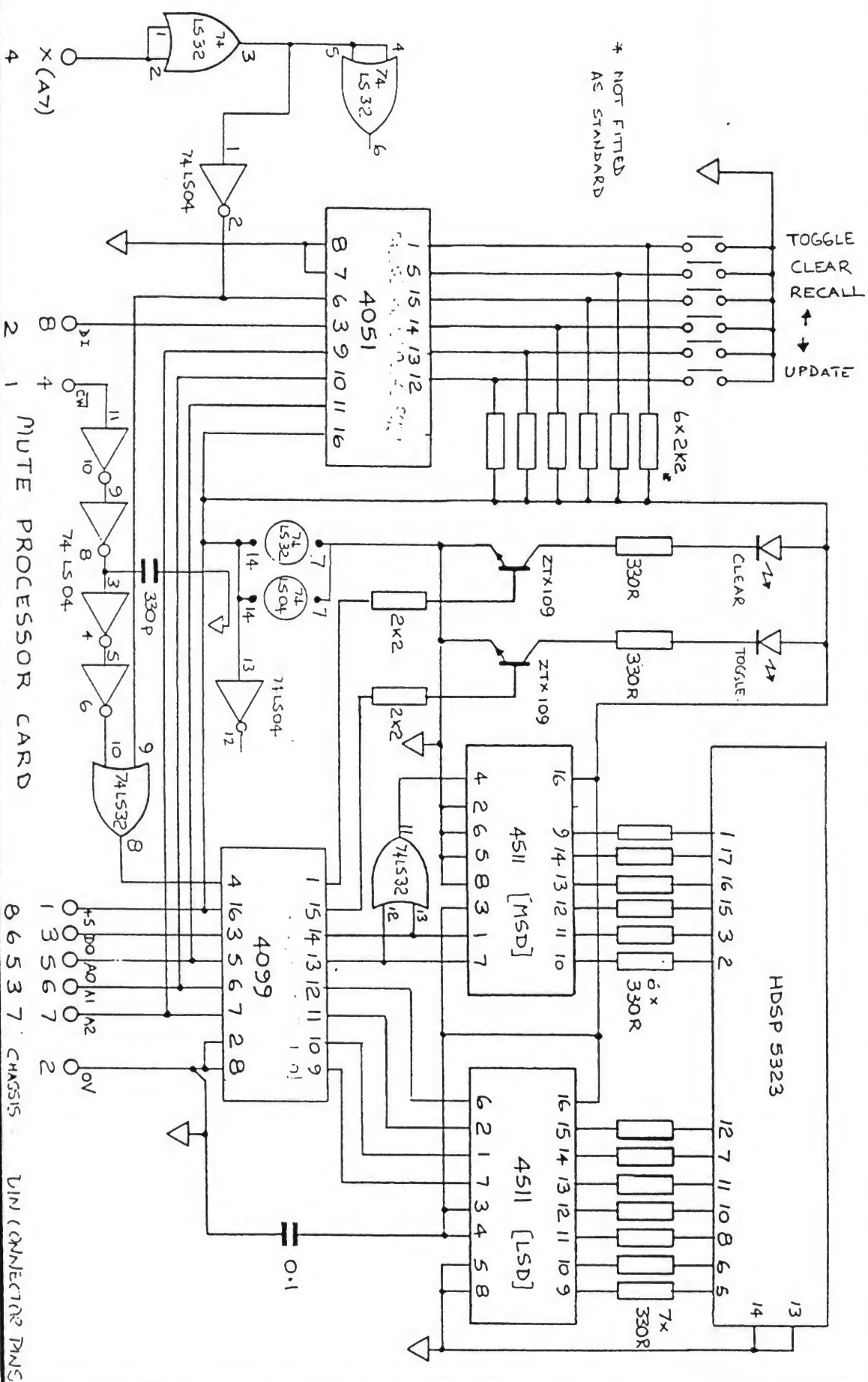
DESIGN DEPT. 69, SHIP STREET, BRIGHTON BN1 1AE
FACTORY, KERNICK INDUSTRIAL EST, PENNYN, CORNWALL PL10 2JH 72070

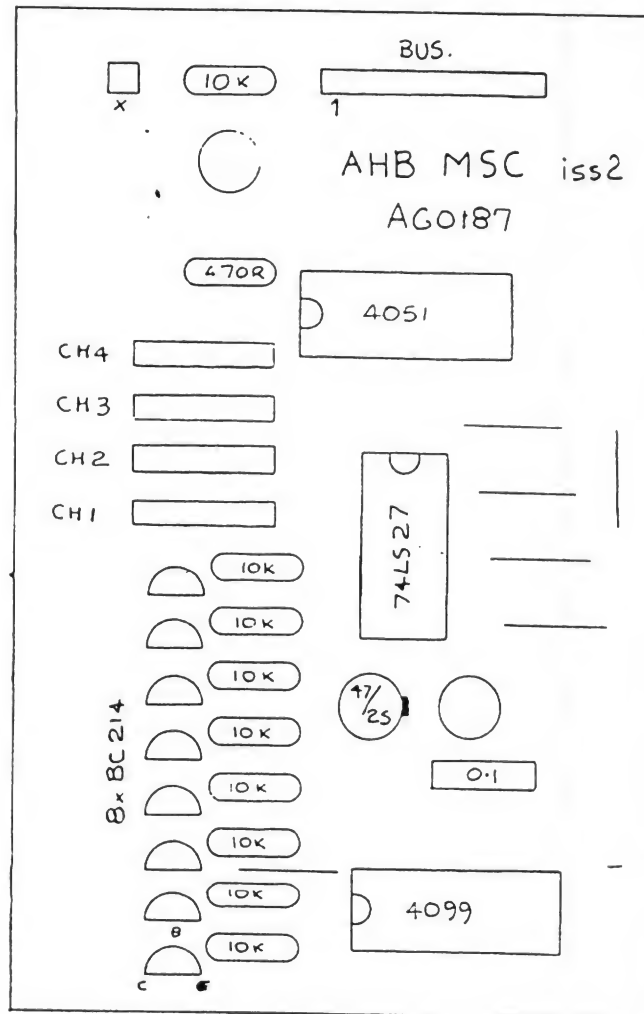
TEL 0273 24928

G. M R 9/4/87

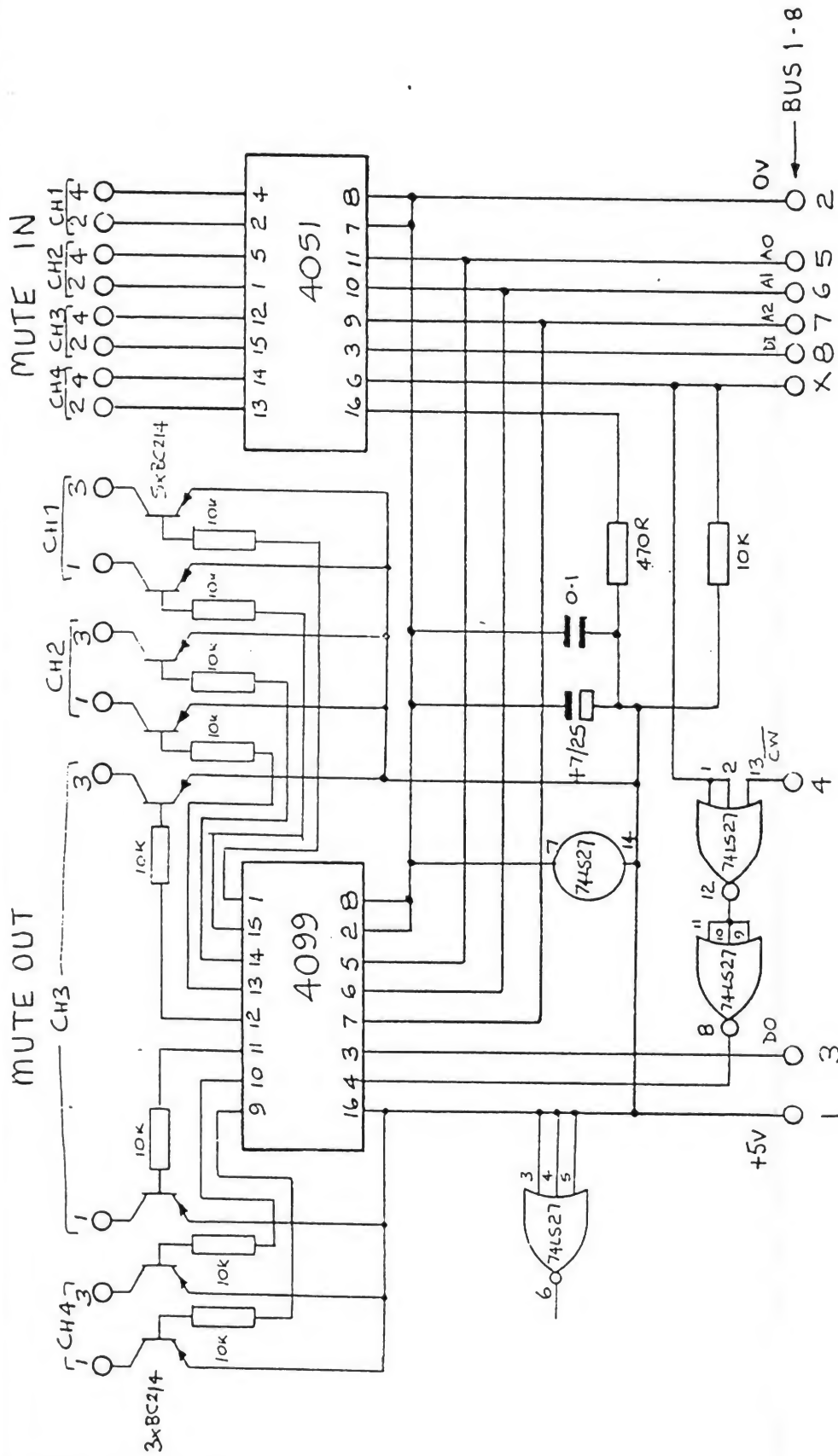
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 FITTED IN MAINFRAME FADER BAY.



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DRAWING No. A164 Issue 1

TITLE

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AHB MUTE SLAVE CARD CIRCUIT, PCB AGO187

USED ON AHE SIGMA 110 AND LOW COST MODULAR RANGE

G.M.R. 8/4/87